KENWOOD

CASSETTE TUNER

KRC-1054R

CASSETTE RECEIVER

KRC-954R

INSTRUCTION MANUAL

KENWOOD CORPORATION

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94/12 11 10 9 8 7 6 5 4 3 2 1 93/12 11 10 9 8 7 6 5

SAFETY PRECAUTIONS

⚠WARNING

To prevent fire and avoid personal injury in case of accidents

- Press in the detachable unit until it is firmly locked in the sleeve.
- Make sure the faceplate is securely locked in place.
- When extending the power supply, memory backup or ground lead, avoid short circuits by using 0.75mm² (AWG 18) or larger automotive grade cable.
- Check to be sure that no metal objects (tools, needles, coins) are left inside the unit.
- If you smell or see smoke, disconnect the unit immediately and consult your KENWOOD dealer. Continued use can cause a fire or permanent damage to the unit.

⚠CAUTION

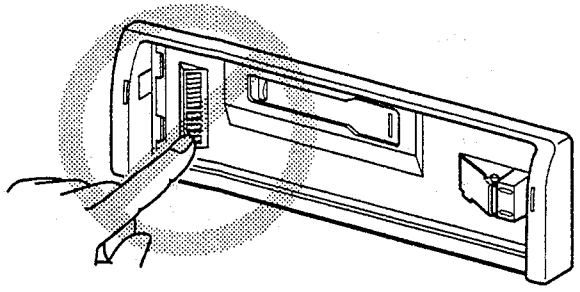
To keep the unit in proper working order

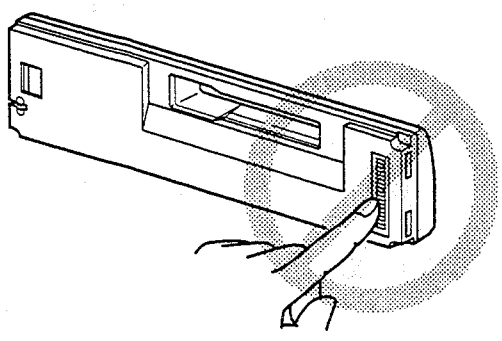
- Be sure it's connected to a 12V DC power supply with a minus ground connection.
- Do not open front panel or top or bottom cover.
- Do not expose this unit to direct sunlight or high heat.
- Keep it clean and dry.
- Be sure it is fastened securely and not exposed to excess vibration.

⚠CAUTION

This unit is equipped with a theft deterrent faceplate. To prevent damage to the faceplate and case

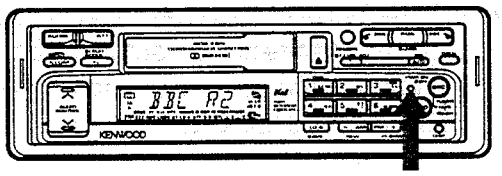
- Avoid exposure to direct sunlight and heat. High temperatures can cause deformation and warping.
- Avoid exposure to water.
- The faceplate is a high-precision instrument. When the faceplate is detached, store it in its special case. Never drop it or subject it to other shocks.
- Do not touch the faceplate terminal or faceplate mount with your fingers.





NOTE

- If you have difficulty in installing this unit in your vehicle, please contact your KENWOOD dealer.
- If it doesn't seem to be working properly, first press the Reset button. If the malfunction persists, consult your KENWOOD dealer.



Reset button

- Before asking for servicing, be sure to set the Security code function to OFF.

Be careful with your tapes

- Before loading a cassette, check for slack tape. If the tape is slack, use a pencil to turn one of the spools in the cassette shell to tighten it up. Playing a slack tape can cause tape to tangle and other problems.
- Do not leave cassettes exposed to direct sunlight, high heat, or moisture. These can deform the cassette shell and make it impossible to eject.
- Avoid use of 120-minute tapes. These tapes are thin and easily become tangled.

CARE AND MAINTENANCE

Cleaning

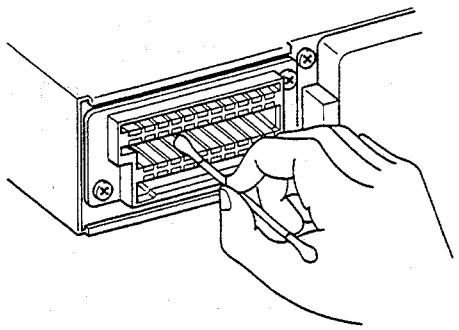
1. Always turn the power OFF before cleaning.
2. Wipe the front panel and other exterior surfaces with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.

⚠CAUTION

- DO NOT use abrasive pads or paint thinner, benzene, or other volatile solvents. These may remove the indicator characters.

Cleaning the rear connector

(KRC-1054R)
The rear connector sometimes requires cleaning. Periodically wipe the connector with a cloth moistened with alcohol, as shown below.



Head cleaning

As you listen to cassettes, magnetic dust and other grime accumulates around the heads and eventually causes noise that lowers sound quality. To clean the heads use a cleaning tape or cleaning kit. Both can be purchased at audio specialty or recorded music shops. Make sure you purchase a kit suited to car audio use.

Cleaning the faceplate terminal

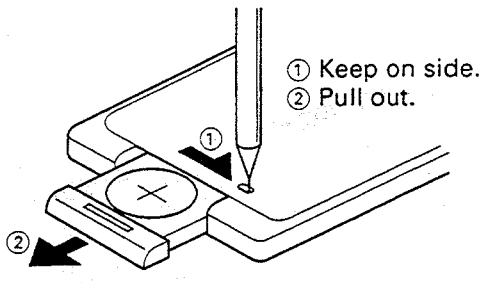
If the faceplate terminal or faceplate mount terminal become dirty, wipe them clean with a soft, dry cloth.

Memory backup battery

(KRC-1054R)
The built-in memory backup battery allows this unit to store memory contents when turned off. This battery should last about 7 years in normal use. (It may last less than 7 years, depending on operating conditions.) When it runs down, please contact your KENWOOD dealer or authorized service center for a replacement. If the guarantee is no longer valid, there will be a small charge.

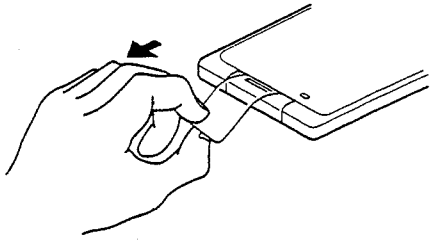
Replacing battery of remote control unit

- The battery life is approximately a half year. When the life has expired, plaese replace the battery with a new battery.
- The remote control unit uses a lithium battery (CR2025).
- Insert battery following the illustration inside the battery box, taking care not to reverse the ⊕ and ⊖ polarity.



NOTE

- Before using this unit for the first time, pull out the film from the battery box.



CONTENTS

Page

■ **Before you begin**
FEATURES 6
■ **Your new Cassette Radio**
ON/OFF & VOLUME CONTROLS 10
AUTO SEEK TUNING 11
MANUAL TUNING 12
LOCAL SCAN AND MONAURAL TUNING 13
TO PLAY CASSETTES 14
AUTO TAPE TYPE SELECTION/DOLBY B/C NR 15
INTENSITY 16
USING THE REMOTE CONTROL 17
■ **Tuner features**
PRESET STATIONS 18
AUTO MEMORY 19
RDS (Radio Data System) 20
LNSS (Local Network Search System) 21
TO SET THE TIME USING RDS 22
K2I (KENWOOD INTELLIGENT 2 IF) 23
TRAFFIC INFORMATION 24
PROGRAM TYPE STATION SELECTION 26
DIRECT ACCESS TUNING 28
■ **Cassette player features**
DIRECT PROGRAM SEARCH 29
TO SCAN 30
TO REPEAT 31
TO SKIP BLANKS 32
TUNER CALL 33
TRAFFIC INFORMATION WHILE PLAYING TAPES 34
DIRECT PROGRAM SEARCH USING NUMBER KEYS 35
■ **CD auto changer features**
TO PLAY COMPACT DISCS 36
TRACK/DISC SEARCH 38
TRACK/DISC REPEAT 39
TRACK SCAN 40
DISC SCAN 41
RANDOM PLAY 42
MAGAZINE RANDOM PLAY 43
TRAFFIC INFORMATION WHILE PLAYING CDs 44
DIRECT TRACK/DISC SEARCH 45
■ **Convenient features**
AUDIO CONTROLS 46
SECURITY CODE 48
SELECTABLE ILLUMINATION AND DISPLAY TYPE 50
PHONE INTERFACE 51
THEFT DETERRENT FACEPLATE 52
TO INSTALL/REMOVE THE UNIT 53
■ **Installation**
ACCESSORIES 54
INSTALLATION PROCEDURE 55
CONNECTIONS(KRC-1054R) 56
(KRC-954R) 57
INSTALLATION 58

■ **TROUBLESHOOTING** 60

■ **SPECIFICATIONS** 62

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FEATURES

■ TUNER FEATURES

- **Auto seek tuning** *(p.11)*
  Automatically searches for stations you can receive.
- **Local scan** *(p.13)*
  When this feature is turned on, it combines scanning and Auto Memory and presets only strong stations offering good reception.
- **Monaural tuning** *(p.13)*
  When stereo reception conditions are poor, turning on this function switches reception to monaural, improving sound quality by reducing noise.
- **Preset stations** *(p.18)*
  Stores the frequencies of your favorite stations in memory, for one-touch tuning.
- **Auto memory** *(p.19)*
  Automatically stores the strongest stations you can pick up, for one-touch tuning.
- **RDS (Radio Data System)** *(p.20)*
  If you turn on RDS while taking a long drive, the tuner will automatically search for an RDS station broadcasting the same program as a station whose signal is weakening. If it finds another RDS station, it will also show you its name.
- **LNSS (Local Network Search System)** *(p.21)*
  Many local stations carry the same programs as national networks. When the signal from the national network station is weak, LNSS will search for a local station offering the same program.
- **RDS clock setting** *(p.22)*
  Some RDS stations broadcast time signals that let your built-in clock set itself to the correct time. If you cross time zones, it adjusts automatically to the time difference as soon as it receives a local RDS signal.
- **EON (Enhanced Other Network)**
  EON is a new RDS service. Offered first by the BBC in England, EON has now spread to the Netherlands and Sweden and will soon reach other countries as well. Stations participating in EON broadcast the names and frequencies of RDS stations providing traffic information. Your tuner stores this data, and, when the Traffic Information function is turned on, switches automatically from station to station to keep you up to date as you travel.
  Stations participating in EON also broadcast the names and frequencies of stations transmitting the same station chain. Your tuner automatically stores this data, allowing one-touch access to the best possible reception.
- **K2I (KENWOOD INTELLIGENT 2 IF)** *(p.23)*
  When this feature is turned on, your tuner automatically narrows the frequency band it receives to prevent interference from stations broadcasting on frequencies close to the one you are listening to.

- **Traffic information** ***(p.24/34/44)***
  When you turn on this function, your tuner automatically picks up signals from traffic information stations and adjusts the volume to a preset level. If it detects a traffic information signal while you are playing a cassette or CD, it automatically switches you to the traffic information broadcast.
- **Program type selection** ***(p.26)***
  This feature enables your tuner to scan automatically for the type of program you wish to hear. Program types can be displayed in either English, French or German.
- **Direct access tuning** ***(p.27)***
  This remote control feature allows you to input a frequency to listen to that station of your choice.
- **Emergency broadcast reception**
  When an emergency broadcasting from a station is received, blinking "ALARM" appears, all of the current functions are interrupted and the unit is switched to the emergency broadcast reception.

■ CASSETTE PLAYER FEATURES

- **Auto tape type selection** ***(p.15)***
  Determines whether the tape you insert is a metal/chrome or normal tape and sets the tape position accordingly.
- **Direct program search** ***(p.29)***
  This function lets you select tracks up to 9 positions before or after the one you are playing.
- **To scan** ***(p.30)***
  Automatically plays the first part of each track on the tape in sequence, to help you find the one you want.
- **To repeat** ***(p.31)***
  Allows you to play the same track repeatedly.
- **To skip blank** ***(p.32)***
  When the player detects a blank section longer than 10 seconds, it automatically fast forwards to the start of the next track.
- **Tuner call** ***(p.33)***
  Allows you to listen to the tuner while rewinding or fast forwarding a cassette.
- **Direct program search using number keys** ***(p.35)***
  This remote control feature allows you to skip ahead a specified number of tracks by pressing the appropriate number keys.

- **Traffic information** ***(p.24/34/44)***
  When you turn on this function, your tuner automatically picks up signals from traffic information stations and adjusts the volume to a preset level. If it detects a traffic information signal while you are playing a cassette or CD, it automatically switches you to the traffic information broadcast.
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  This remote control feature allows you to skip ahead a specified number of tracks by pressing the appropriate number keys.

FEATURES

■ CD AUTO CHANGER FEATURES

- **CD auto changer control** ***(p.36-45)***
  Controls operations of the CD auto changer.
- **Track repeat** ***(p.39)***
  Plays the same track repeatedly.
- **Disc repeat** ***(p.39)***
  Plays the same disc repeatedly.
- **Track scan** ***(p.40)***
  Automatically plays the first part of each track on the disc in sequence, to help you find the one you want.
- **Disc scan** ***(p.41)***
  Automatically plays the first part of each disc in the CD auto changer, to help you find the one you want. Especially helpful when you cannot remember the number of the disc you want.
- **Random play** ***(p.42)***
  Plays the tracks on a CD in random order.
- **Magazine random play** ***(p.43)***
  Plays discs and tracks of discs in your auto changer in random order.
- **Direct track/disc search using number keys** ***(p.45)***
  This remote control feature allows you to enter the number of the track or disc you wish to hear by pressing the appropriate number keys.

■ CONVENIENT FEATURES

- **Mute** ***(p.10)***
  Lets you quickly lower and restore volume with one-touch ease. It can also be set to fade in to the previous volume gradually.
- **Remote control** ***(p.17)***
  This unit can be operated using the wireless remote control supplied as an accessory. Some features require the remote control.
- **Security code** ***(p.48)***
  Once this unit has been removed, it cannot be turned on again without entering the code on your identity card. This feature helps prevent theft.
- **Selectable illumination** ***(p.50)***
  Allows illumination color to be switched between green and orange.
- **Selectable display type** ***(p.50)***
  Lets you change the display from negative to positive or vice-versa.
- **Phone interface** ***(p.51/KRC-1054R only)***
  Pauses the player automatically whenever a call is received.
- **Theft deterrent faceplate** ***(p.52)***
  When you leave the vehicle, you can take the faceplate with you, to help prevent theft.
- **Theft prevention chassis** ***(p.53/KRC-1054R only)***
  Allows you to take the unit with you when you leave the vehicle, to help you prevent theft.

- **Electronic chassis lock**
  (p.53/KRC-1054R only)
  To make sure the prevention of theft, the theft-prevention chassis function can be locked to restrict the period in which the unit can be removed.
- **Automatic illumination**
  Causes the display panel to light up when the vehicle's lights are on.
- **Dimmer control**
  Automatically dims the display when interior lights are turned on.

ON/OFF & VOLUME CONTROLS

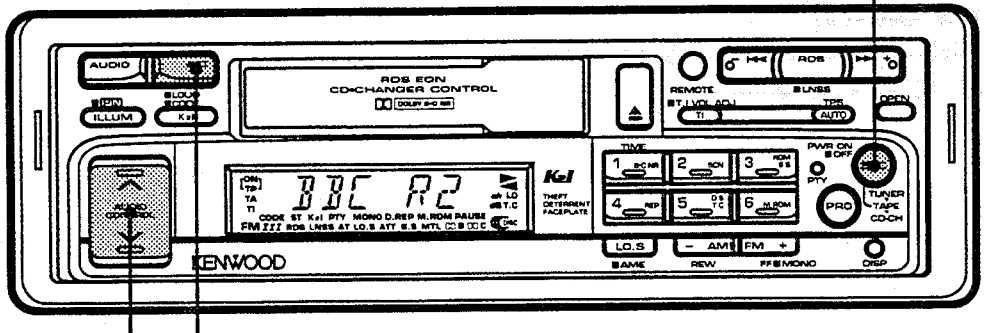
POWER ON/OFF

To turn the power ON

► Press the Power button.

To turn the power OFF

► Press the Power button for more than one second.



VOLUME

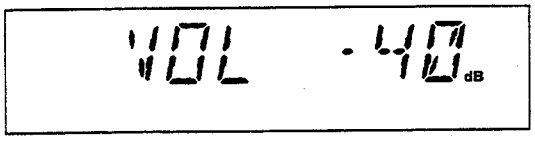
To increase the volume

► Press the ∧ button.

To lower the volume

► Press the ∨ button.

(The display indicates the sound level in decibels (dB).)



MUTE

To lower volume

► Briefly press the Attenuator button.

(The indicator blinks.)

To restore original sound level

► Briefly press the Attenuator button again.

(The indicator stops blinking and the volume gradually returns to its original level.)

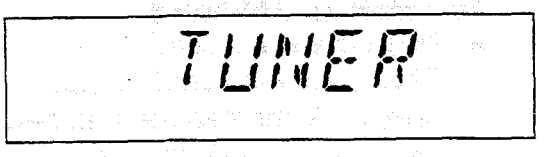
NOTE

- Turning the power ON automatically restores the settings in use when the unit was turned OFF.
- Perform these operations with the power ON.

AUTO SEEK TUNING

WHILE LISTENING TO THE TUNER

► Press the Source button to select Tuner mode.
(If you see the TUNER display, you are in Tuner mode.)



1

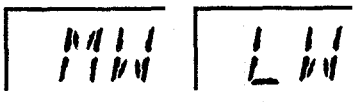
To select an FM band

► Press the FM button to choose FM1, FM2 or FM3.

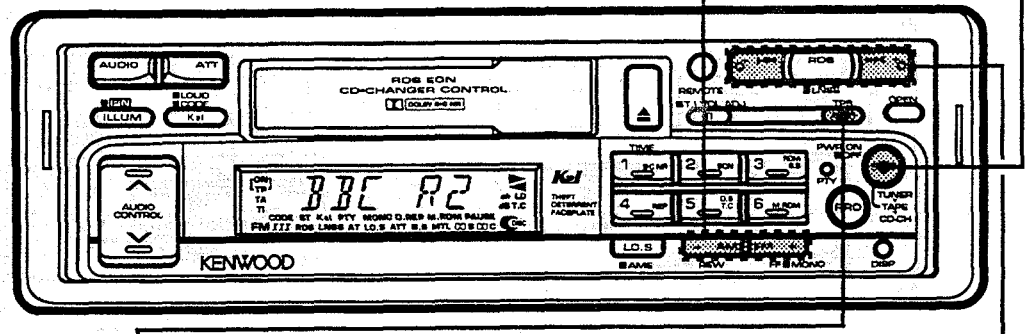
To select an AM band

► Press the AM button.
(The tuner will automatically select LW for frequencies below 281 kHz and MW for frequencies above 531 kHz.)

FM1 FM2 FM3

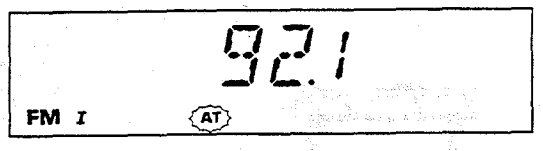


MW LW



2

► If the Auto indicator light is not illuminated, press the Auto button to turn the Auto function on.
(The Auto indicator light will light up.)

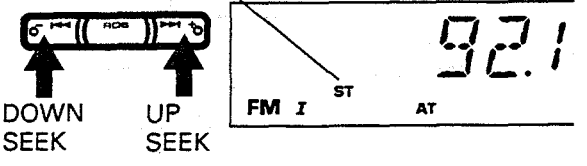


ON

3

► Press either the Down seek or the Up seek button.
(The Auto seek function will find the next station you can receive.)

Illuminated when FM stereo broadcasts are received.

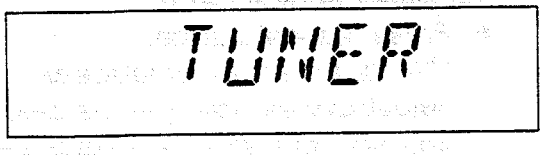


DOWN SEEK UP SEEK

MANUAL TUNING

WHILE LISTENING TO THE TUNER

► Press the Source button to select Tuner mode.
(If you see the TUNER display, you are in Tuner mode.)



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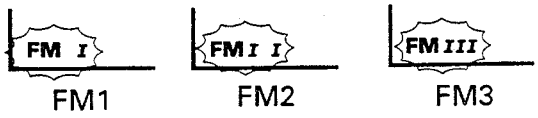
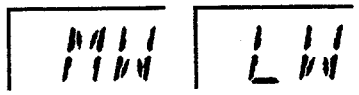
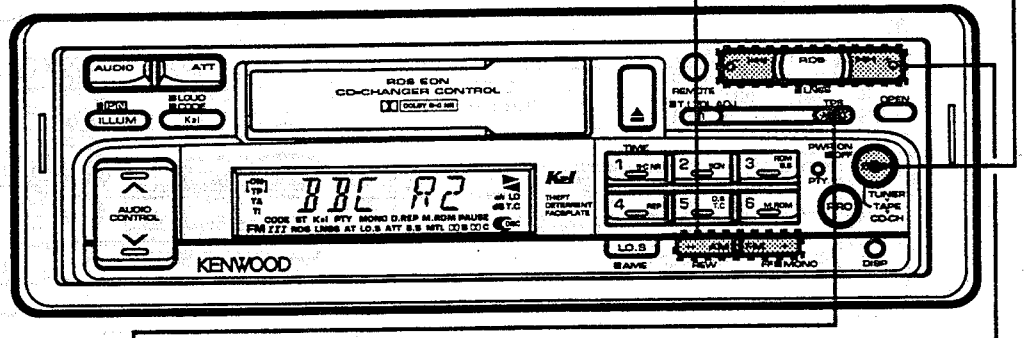


FM1 FM2 FM3

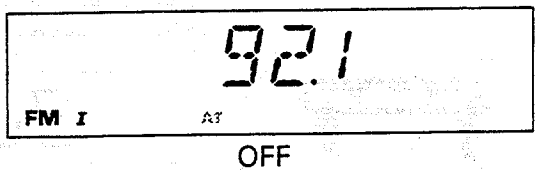


MW LW



2

► If the Auto indicator light is illuminated, press the Auto button to turn the Auto function off.
(The indicator light will go out.)



OFF

3

► Press either the down or up arrow buttons.
(The frequency will continue to change as long as you hold the button down.)

Illuminated when FM stereo broadcasts are received.

Down: for lower frequencies

Up: for higher frequencies

LOCAL SCAN AND MONAURAL TUNING

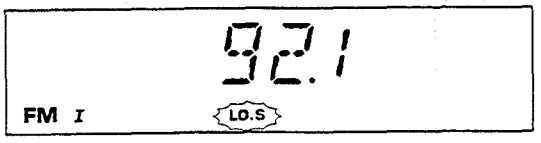
■ LOCAL SCAN TUNING

1

To turn on Local scan

► Briefly press the Local scan button.

(The indicator light will light up.)



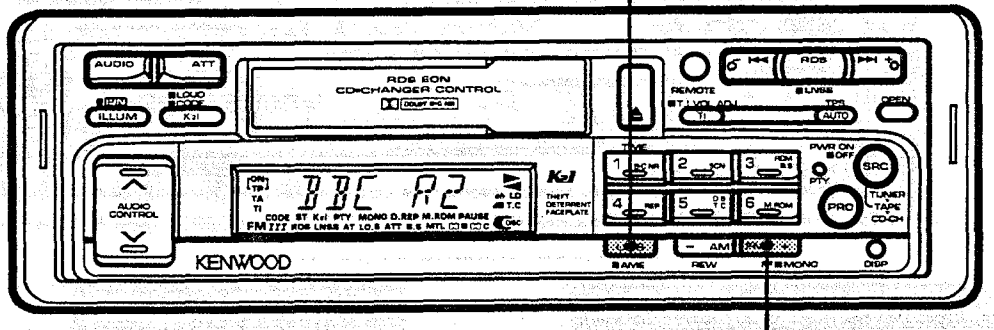
ON

2

To turn off Local scan

► Briefly press the Local scan button again.

(The indicator light will go out.)



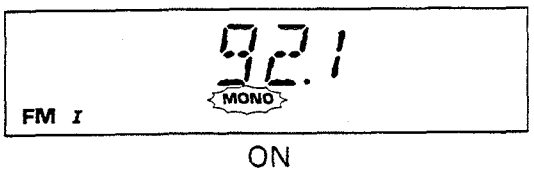
■ MONAURAL TUNING

1

To turn on Monaural tuning

► Press the Monaural tuning button for more than one second.

(The indicator light will light up.)



ON

2

To turn off Monaural tuning

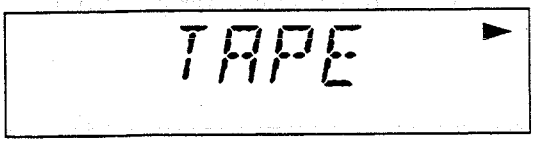
► Press the Monaural tuning button for more than one second.

(The indicator light will go out.)

TO PLAY CASSETTES

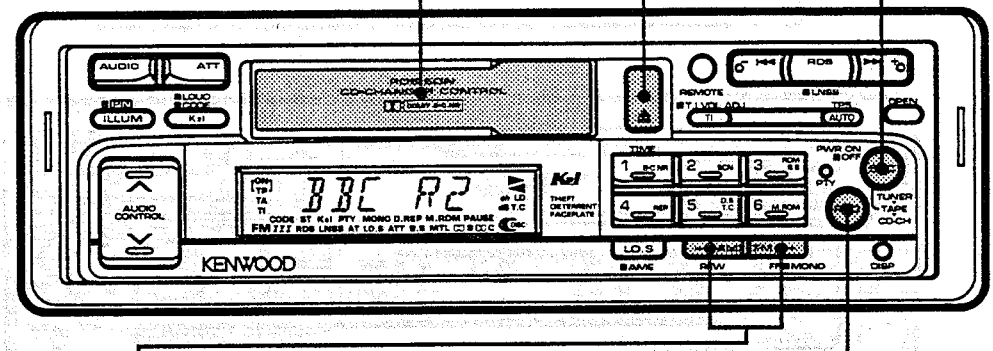
TO PLAY

► Insert a cassette tape with the exposed tape facing to the right, then press the Source button to select TAPE.
(When the word "TAPE" appears on the display, playback will start.)



TO STOP AND EJECT

► Press the Eject button.
(The player will eject the cassette.)



TO FAST FORWARD/REWIND

Operation	Press
Fast Forward	FF
Rewind	REW

To stop, press the Program button.

TO SWITCH SIDES

► Press the Program button.
(The player will play the reverse side.)

TAPE PLAY INDICATORS

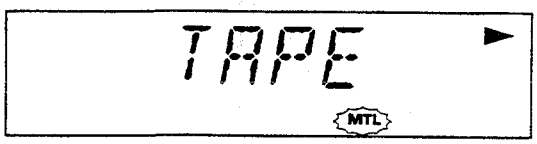
When you insert the cassette with side A up.
Please note: If side B is up, the indicators will be reversed.

Indicator	Tape side playing
►	Side A
◄	Side B
▶◀	The tape is stopped. The player is in another mode.

AUTO TAPE TYPE SELECTION/DOLBY B/C NR

AUTO TAPE TYPE SELECTION

When you insert a metal/chrome tape, this unit will automatically set itself to the metal/chrome position and display the MTL indicator.

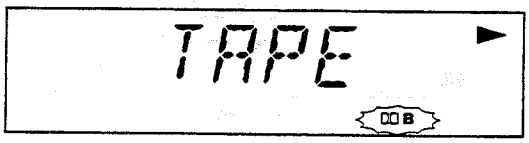


Metal/Chrome tape indicator.

DOLBY B/C NR

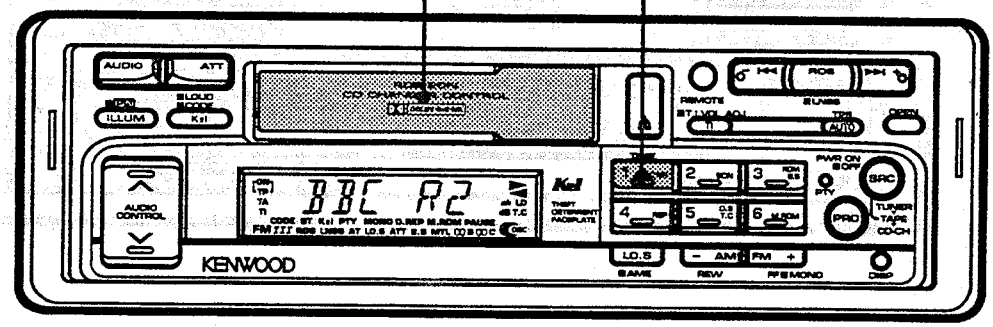
► When you press the Dolby B/C NR button, the unit will shift from Dolby B NR to Dolby C NR, from Dolby C NR to OFF and from OFF to Dolby B NR again.

(The display will change accordingly.)



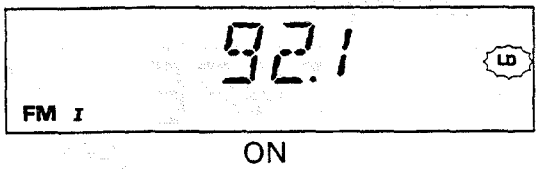
Dolby B NR ON.

Dolby C NR ON.



INTENSITY

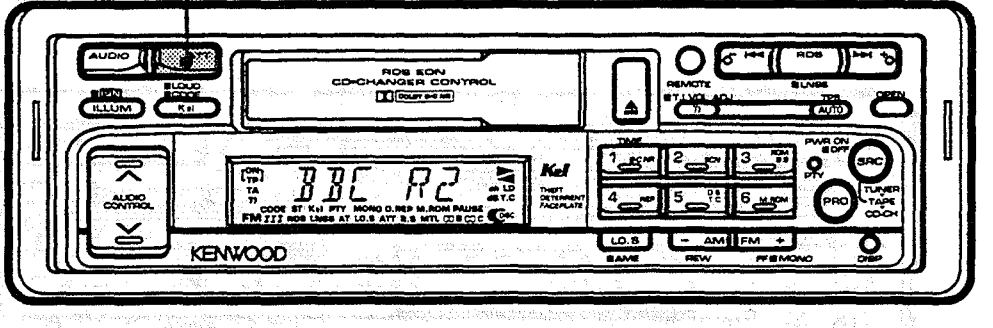
► If the Loud indicator light is not illuminated, press the Loud button for more than one second.
(Loud indicator light will light up. Both bass and treble volume increase.)



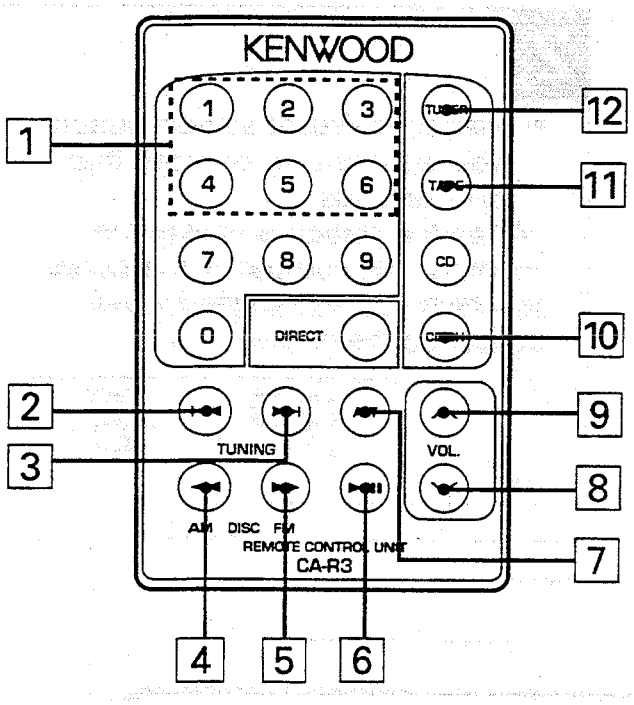
ON

TO RESTORE ORIGINAL LEVELS

► Press the Loud button again for more than one second.
(Loud indicator light will go out.)



USING THE REMOTE CONTROL



1
TUNER:
Press to select preset stations.

2
TAPE:
Plays the previous track.
TUNER:
Shifts the lower frequency.
CD CHANGER:
Plays the previous track.

3
TAPE:
Plays the next track.
TUNER:
Shifts to higher frequency.
CD CHANGER:
Plays the next track.

4
TAPE:
Rewinds the tape.
TUNER:
Switches to AM bands.
CD CHANGER:
Plays the previous disc.

TAPE:
Operates in Tape Mode.
TUNER:
Operates in Tuner Mode.
CD CHANGER:
Operates in CD Changer Mode.

5
TAPE:
Fast forwards the tape.
TUNER:
Switches to FM1/FM2/FM3 bands.
CD CHANGER:
Plays the next disc.

6
TAPE:
Stops Fast Forward or Rewind and starts tape play. During tape play, switches from the side being played to play the other side.
CD CHANGER:
Plays or pauses playing of a CD.

7
Lowers audio volume.
To restore previous level
- Press this button again, or
- Press the main unit's Attenuator button

8
Lowers volume.

9
Increases volume.

10
Press for CD changer mode.

11
Press for Tape mode.

12
Press for Tuner mode.

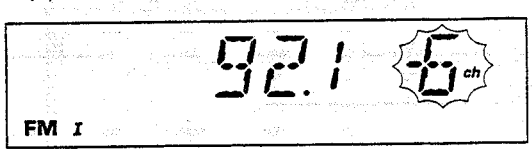
PRESET STATIONS

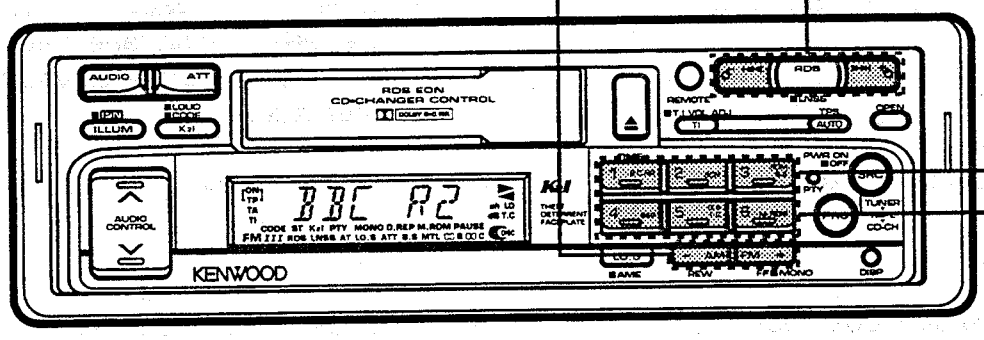
1

Select the band and station you want to preset.

2

► Press the Preset station button you want to use for more than two seconds.
(When the station is entered in memory, the number of the button to which you've assigned it will appear on the display.)



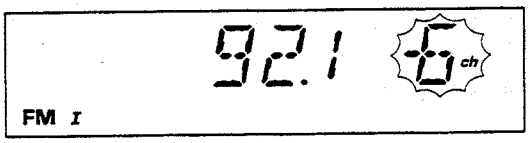


3

By repeating steps 1 and 2 you can preset each button for one station each from the FM1, FM2, FM3 and either the MW or LW bands.

4 USING PRESET STATIONS

► Briefly press the button of the station you want.
(When you press the button, you will hear the station assigned to it.)



NOTE

- When you assign a preset station to a button, the previous setting will be erased.

AUTO MEMORY

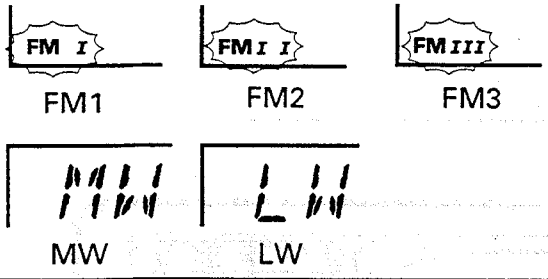
1

To select an FM band

► Press the FM button to choose FM1, FM2 or FM3.

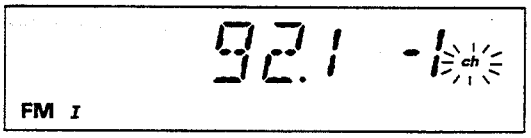
To select an AM band

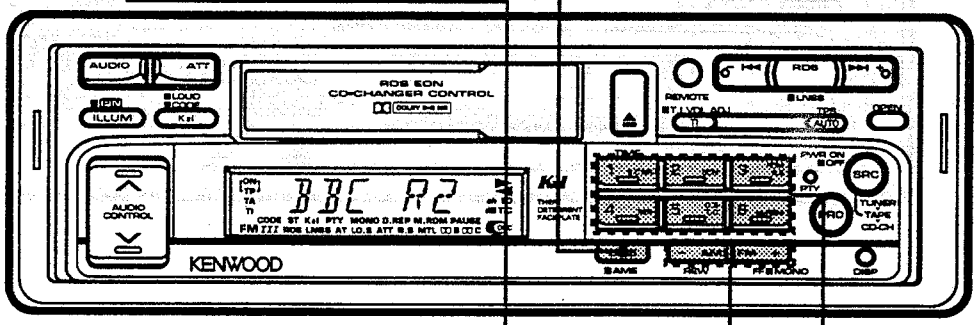
► Press the AM button.
(The tuner will automatically select LW for frequencies below 281 kHz and MW for frequencies above 531 kHz.)



2

► Press the Auto memory button for more than two seconds.
(When the seek function finds a station, the "ch" indicator will blink. The display will show the number of the button to which it has been assigned.)



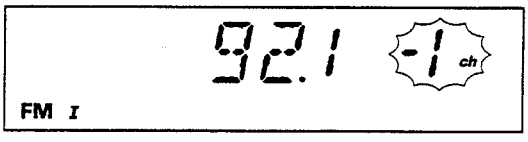


3

When six stations have been found, the Auto memory function stops. You will hear the last station selected.

4 USING PRESET STATIONS

► Briefly press the button of the station you want.
(When you press the button, you will hear the station assigned to it.)



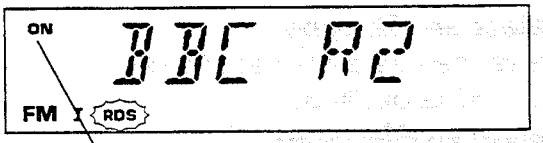
NOTE

- For automatic preset of RDS stations, press the RDS button before pressing the Auto Memory button. Note that the RDS stations which have been preset in FM1 are not preset by the auto memory for FM2, and that the RDS stations preset in FM2 are not preset by the auto memory for FM3.

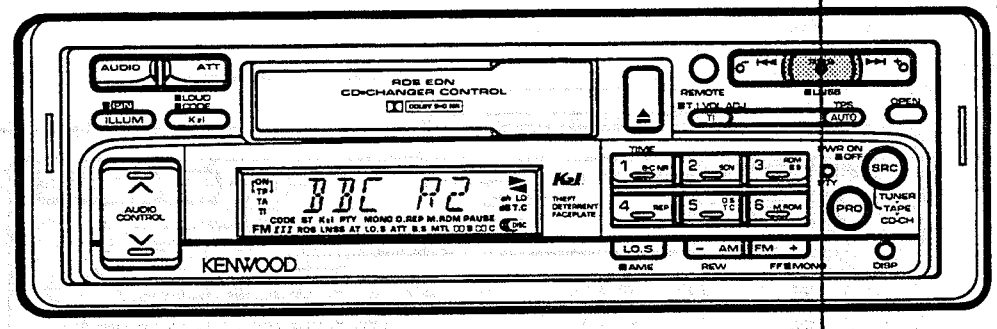
RDS (Radio Data System)

1

► Briefly press the RDS button.
(If you are receiving an RDS station, the RDS indicator and name of station you are receiving will appear on the display.)



- The ON indicator will appear when the station you are receiving broadcasts EON frequency data for stations transmitting the same type program.



2

If the signal weakens, the RDS function will search automatically for a station providing the same broadcast.

TO TURN OFF RDS

► Press the RDS button again.
(The RDS indicator will disappear.)

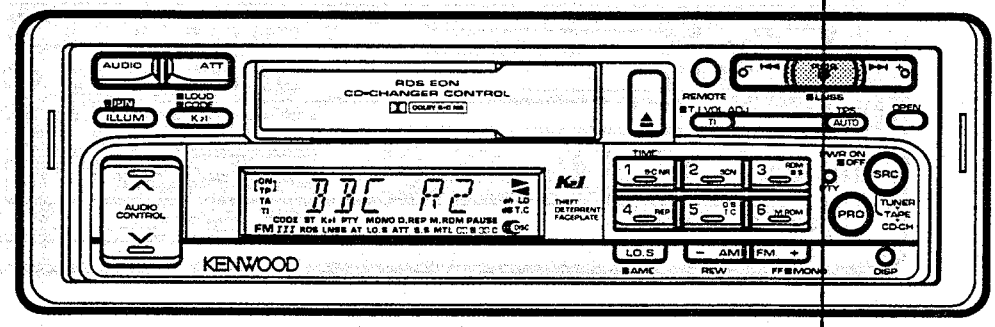
NOTE

- If the RDS function cannot find a stronger station broadcasting the same type program, it will go back to the original station. If the RDS function repeatedly tries and fails to find a stronger station, please turn it off and switch manually to another station.

LNSS (Local Network Search System)

1

► Press the LNSS button for more than one second.
(The LNSS indicator will appear on the display.)



2

If the signal weakens, the LNSS function will search automatically for other stations including weak local stations.

TO TURN OFF LNSS

► Press the LNSS button again for more than one second.
(The LNSS indicator will disappear.)

NOTE

- When the LNSS function finds a stronger local station, it may not be broadcasting the same program you were listening to.

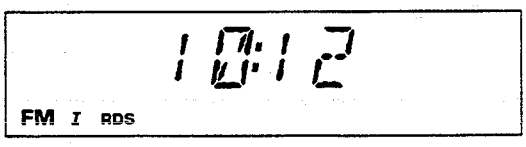
TO SET THE TIME USING RDS

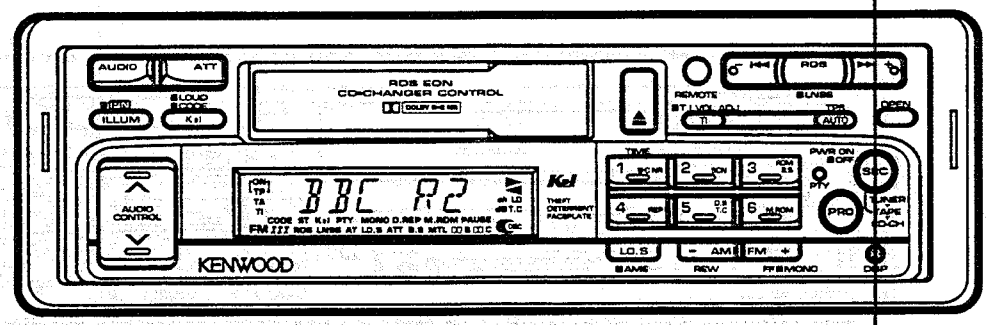
1

Listen to an RDS station for 3–4 minutes.

2

► Press the Display button.
(The time will be set automatically and displayed in 24-hour format.)





3

► Pressing the Display button changes displays as indicated to the right.

Mode	Displays
Tuner	Frequency ⇔ Time
Tape	"TAPE" ⇔ Time
CD Changer	Disc No. / Track No. / Play time ⇕ Time

NOTE

- If you see "— — : — —" on your display, the RDS station to which you are tuned may not be transmitting a time signal. Please switch to another RDS station.

K2I (KENWOOD INTELLIGENT 2 IF)

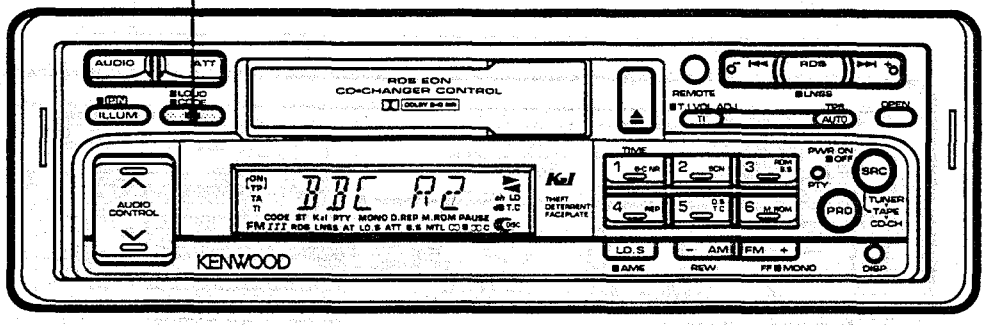
TO TURN ON

► Briefly press the K2I button.
(The K2I indicator will appear on the display.)

ON

TO TURN OFF

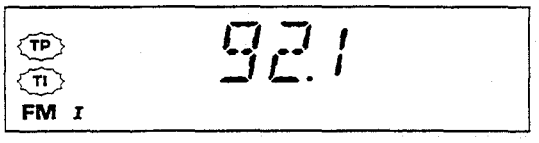
► Briefly press the K2I button.
(The K2I indicator will disappear from the display.)



TRAFFIC INFORMATION

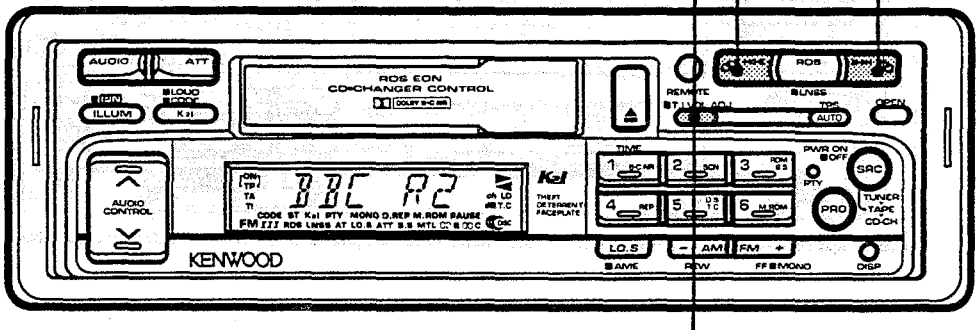
1

► When you briefly press the TI button.
(The TI indicator will appear on the display. The TP indicator will appear when your tuner is receiving a traffic information station.)



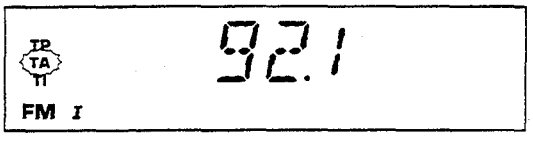
2

► Press the Down seek or Up seek button.
(The TP indicator will appear when your tuner receives a traffic information station.)



3

When a traffic information broadcast starts, the TA indicator will appear on the display. The volume level will be adjusted automatically.



4

► To listen to traffic information at normal volume level, press the TI button.
(This will cancel the Traffic information function.)

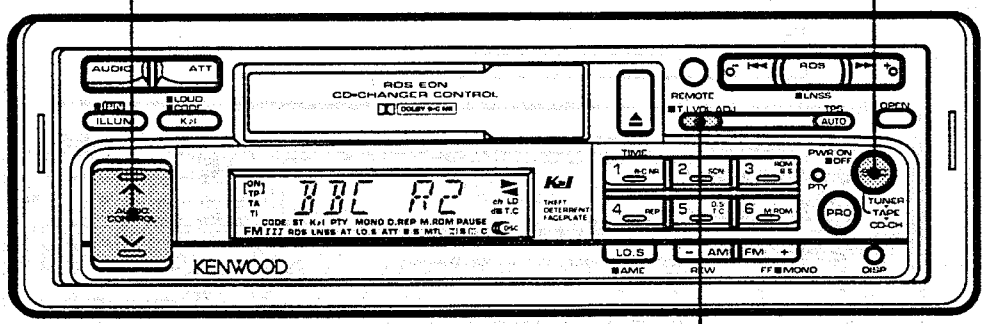
NOTE

- When the traffic information station's signal weakens, the TI indicator will start blinking. You should then press the Down seek or Up seek button to have the radio find another traffic information station.
- Pressing the TI button while in the MW/LW reception mode switches you into the FM mode. Pressing the TI button again will not return you to the MW/LW mode.

■ SETTING TRAFFIC INFORMATION VOLUME LEVEL

1 Select Tuner mode.

2 Adjust volume level for receiving traffic information.



3 Press the TI volume button for more than two seconds.

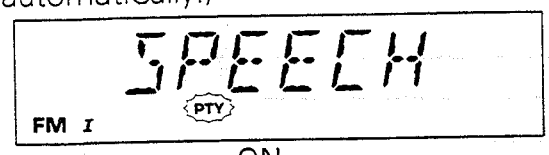
NOTE

- The automatic adjustment of volume level does not function while the Program type selection function is in use.

PROGRAM TYPE SELECTION

1 To turn ON

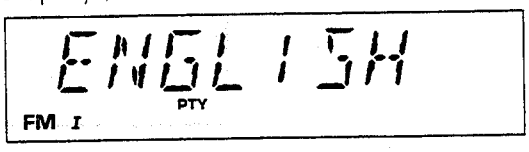
► Press the PTY button.
(The program type selection function is turned ON. The PTY indicator lights up and the program type is displayed. If you do not perform any operation for 30 seconds, the program type selection function is turned OFF automatically.)

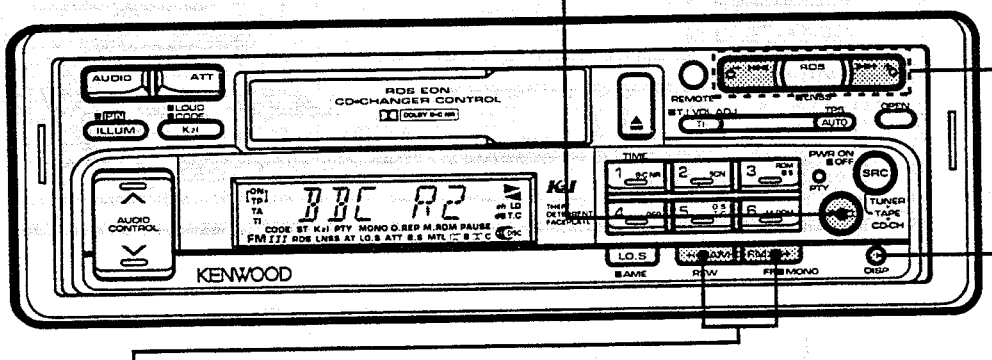


ON

2 To change display language

1
► Press the Display button for more than one second.
(The tuner will switch to display language selection mode and the current language will appear on the display.)



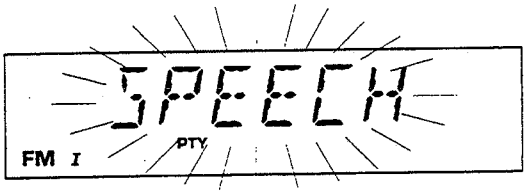


3 To select program type

► Press the +/– or a Preset button to select the program type to be listened to.
(For the selectable program types and their indications, refer to the below descriptions. By pressing the Preset button for more than 2 seconds, the program type can be changed to the one you selected with +/– button.)

4 To find a new program

► Press the Down seek or Up seek button.
(The Program type will blink, and the tuner will scan for a new program.)



Program types that can be selected. Characters inside ( ) are the displayed program type names.

- **Preset button**
  1.Music(MUSIC), 2.Speech(SPEECH), 3.News(NEWS), 4.Other Music(OTHER M), 5.Serious Classical(CLASSICS), 6.Varied(VARIED)
- **+/– button**
  Speech(SPEECH) ↔ News(NEWS) ↔ Current Affairs(AFFAIRS) ↔ Information(INFO) ↔ Sport(SPORT) ↔ Education(EDUCATE) ↔ Drama(DRAMA) ↔ Culture(CUL TURE) ↔ Science(SCIENCE) ↔ Varied(VARIED) ↔ Pop Music(POP M) ↔ Rock Music(ROCK M) ↔ M.O.R. Music(M,O,R, M) ↔ Light Classical(LIGHT M) ↔ Serious Classical(CLASSICS) ↔ Other Music(OTHER M) ↔ Music(MUSIC) ↔

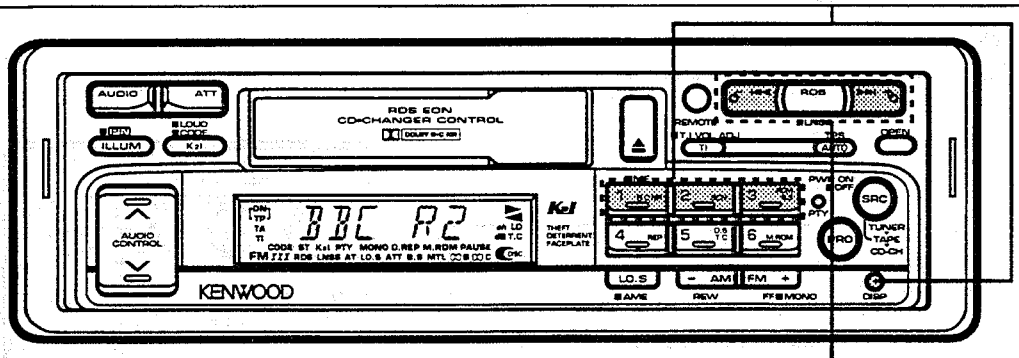
2

► Press the Preset button with the same number as the language you prefer, as indicated on the chart below.

Preset button No.	Indicated language (Display)
No. 1	English (ENGLISH)
No. 2	French (FRANCAIS)
No. 3	German (DEUTSCH)

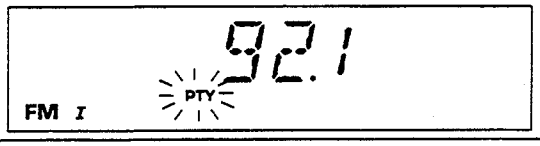
3

► Press the Display button to confirm your selection.



5 Station name display

When a station transmitting the selected program type is found, the station starts to be received and the display shows the frequency of the station then its station name.
(The PTY indicator blinks for 30 seconds after the start of receive. When the indicator is turned OFF, the program type selection is also turned OFF.)



6 To find another station

► If you do not like the station being received, press the Down or Up seek button again while the PTY indicator is blinking.

NOTE

- "NO PTY" is displayed if a station of the selected program type is not found. In this case, a station of another program type can be selected by performing operations of step 3 and later within 30 seconds after "NO PTY" is displayed.
- Most functions can be carried out with the buttons on the remote control unit.
- This function is not available during reception of traffic information reception.

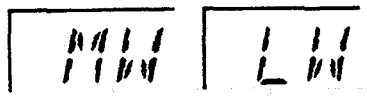
DIRECT ACCESS TUNING

1 Select either AM or FM

► To select AM, press the AM button.

► To select FM, press the FM button.

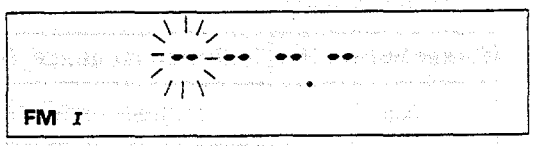
FM1 FM2 FM3

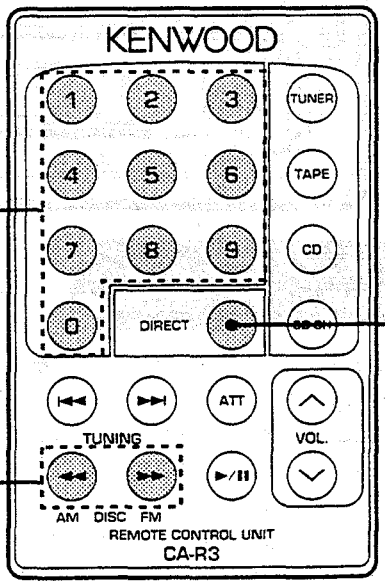


MW LW

2 Select direct access

► Press the Direct button.
(The – – – – will appear on the display and blink for 10 seconds.)





3 Enter a new frequency

► Before the frequency indicator stops blinking, use the number keys control to enter the frequency you prefer.

For example:To enter FM 87.5 MHz, press ⑧, ⑦, ⑤.
For example:To enter LW 281 kHz, press ⓪, ②, ⑧, ①.
For example:To enter MW 1611 kHz, press ①, ⑥, ①, ①.

NOTE

- You cannot enter frequencies your tuner cannot receive.

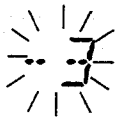
DIRECT PROGRAM SEARCH

1 SKIP BACKWARD

► Press the ⏮ button as many times as the number of tracks you want to skip. The display will show the numbers of the tracks you skip.

For example:

••• When you press once, starting with your present track.

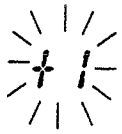


••• When you press four times, starting with your present track.

1 SKIP FORWARD

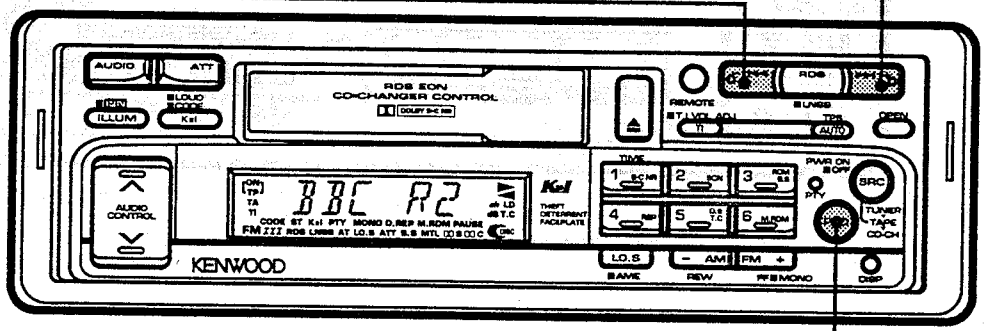
► Press the ⏭ button as many times as the number of tracks you want to skip. The display will show the numbers of the tracks you skip.

For example:



••• When you press once, starting with your present track.

••• When you press five times, starting with your present track.



2

Skipping stops and playback starts from the track you have selected.

TO STOP DIRECT PROGRAM PLAY

► Press the Program button.

NOTE

In the following cases, this function may not work as described.

- If the blank space between tracks is less than four seconds, preventing the player from detecting the break.
- If the volume is low for more than four seconds, causing the function to detect a break.

If you press the ⏮ button within three seconds after a track starts playing, the previous track will be counted as the 0 track.

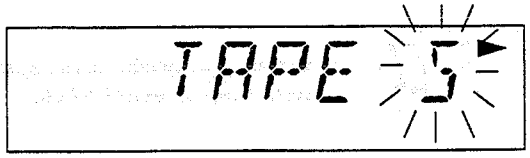
TO SCAN

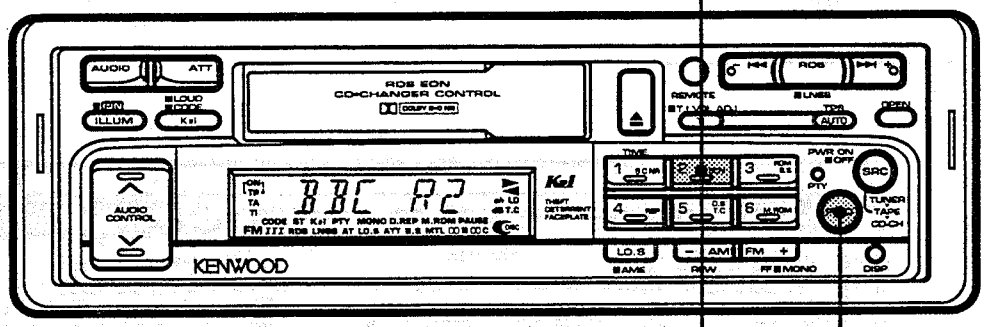
1

► Press the Scan button.
(The tape will start to fast forward.)

2

When it reaches the start of the next track, it will play the first part of the track, then start scanning for the next track.
The display will change as indicated below.





3

► When you hear the track you want, press either the Program button or the Scan button.
(This cancels the scanning and starts playback.)

NOTE

In the following cases, this function may not work as described.

- If the blank space between tracks is less than four seconds, preventing the player from detecting the break.
- If the volume is low for more than four seconds, causing the function to detect a break.

TO REPEAT

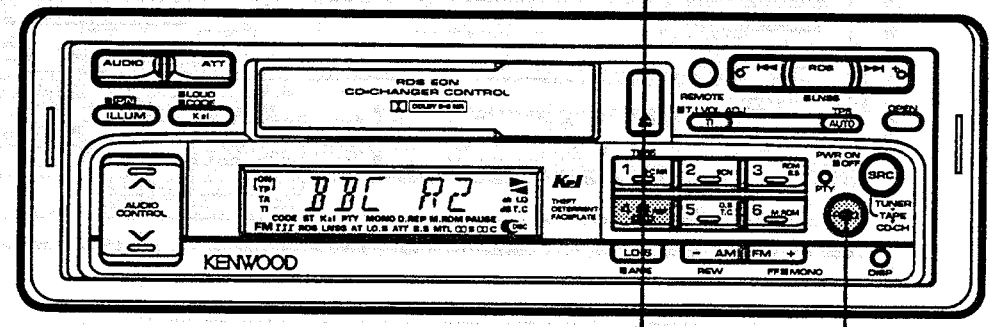
1

► To repeat the track you are listening to, press the Repeat button.
(The Repeat indicator will appear on the display.)

ON

2

When the player reaches the end of the track, it will automatically rewind the tape and play the track again.



TO STOP REPEATING

► Press either the Program button or the Repeat button.
(The Repeat indicator will disappear.)

NOTE

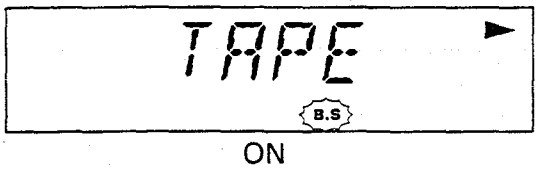
In the following cases, this function may not work as described.

- If there is not at least a four second break before the start of the track you are listening to, the player may not be able to rewind the tape properly.
- If the volume is low for more than four seconds, it may cause the player to start rewinding before the track is finished.

TO SKIP BLANKS

1

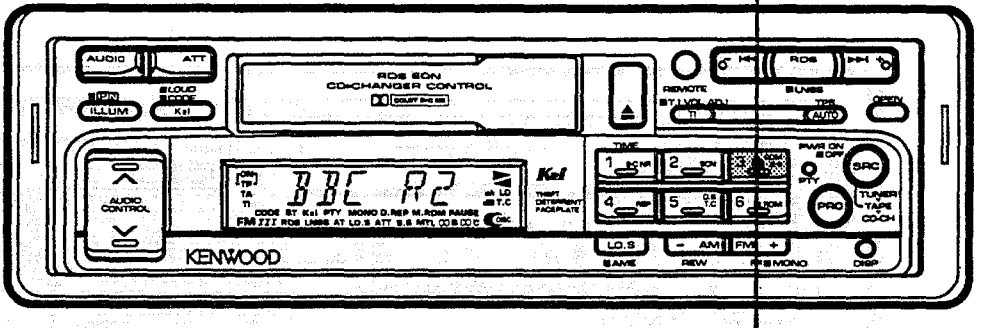
► Press the Blank skip button.
(The Blank skip indicator will appear on the display.)



ON

2

If the player encounters more than 10 seconds with no sound, it will automatically fast forward to the start of the next track.



TO STOP SKIPPING

► Press the Blank skip button again.
(The Blank skip indicator will disappear.)

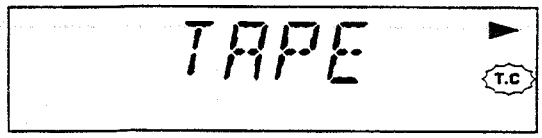
NOTE

- In some forms of music pauses longer than 10 seconds may be expected. (Classical music is a good example.) In this case, please turn the Blank skip function off.

TUNER CALL

1

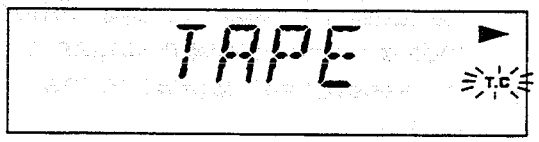
► Press the Tuner call button.
(The Tuner call indicator will appear on the display.)

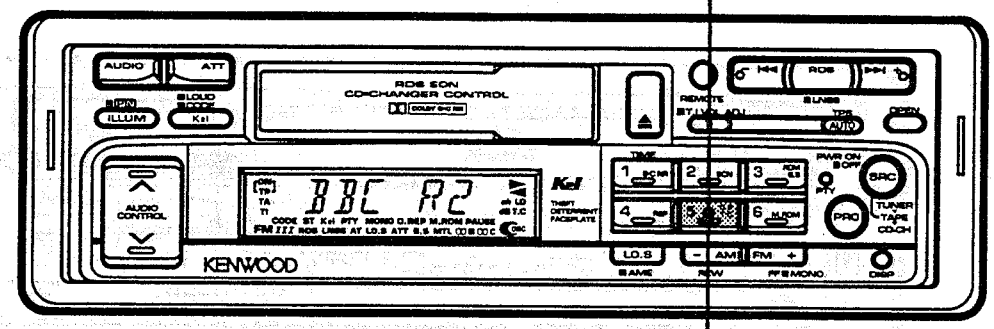


ON

2

During fast forward or rewind operation, the Tuner Call indicator blinks and the tuner source is reproduced.





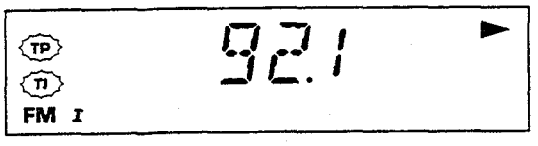
TO STOP TUNER CALL

► Press the Tuner call button again.
(The Tuner call indicator will disappear.)

TRAFFIC INFORMATION WHILE PLAYING TAPES

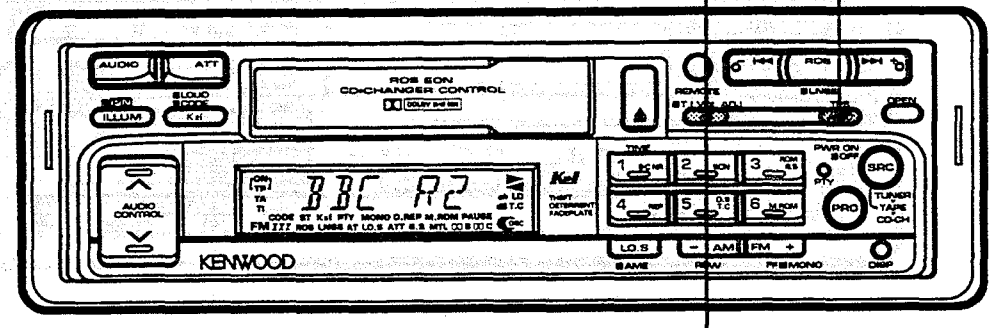
1

► When you press the TI button. (The TI indicator will appear on the display. If the station you are tuned to is not a traffic program station, the tuner will seek for one. When it finds a traffic program station, the TP indicator will appear on the display.)



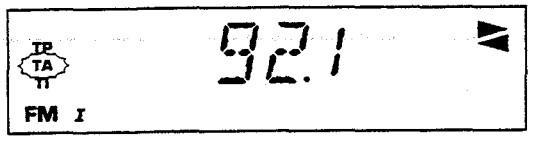
2

► If the station the tuner finds is not the one you want, press the TP seek button.



3

When a traffic information broadcast starts, this unit will switch automatically into Tuner mode. The tape will stop and the TA indicator will appear on the display. Tape play will resume when the broadcast is over.



4

► To overide and return to the tape press the TI button.
(This will cancel the Traffic information function.)

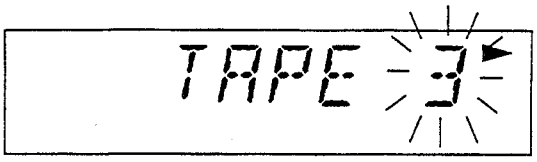
DIRECT PROGRAM SEARCH USING NUMBER KEYS

1 To skip ahead or back a specified number of tracks

► Use the number keys from 1 to 9.

(When the player reaches the new track, the track number will blink for five seconds.)

For example: To skip 3 tracks ahead, press ③.
To skip 3 tracks back, press ③.



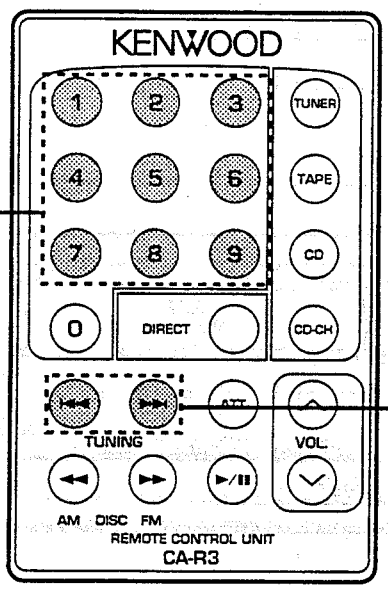
2

To skip further forward

► While the track number is still blinking, press the ▶▶| button.

To skip further backward

► While the track number is still blinking, press the |◀◀ button.



NOTE

In the following cases, this function may not work as described.

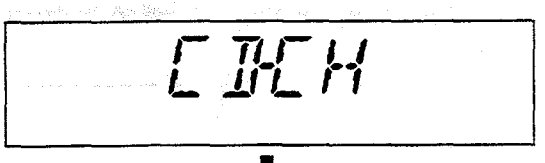
- If the blank space between tracks is less than four seconds, preventing the player from detecting the break.
- If the volume is low for more than four seconds, causing the function to detect a break.

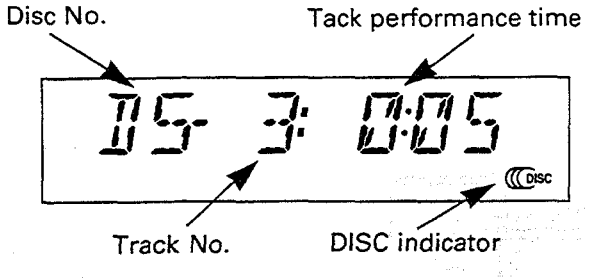
If you press the |◀◀ button within three seconds after a track starts playing, the previous track will be counted as the 0 track.

TO PLAY COMPACT DISCS

TO START

► Press the Source button to select CD changer mode.
(If you see CD-CH display, you are in CD changer mode. Disc play will begin one second after you see the display.)

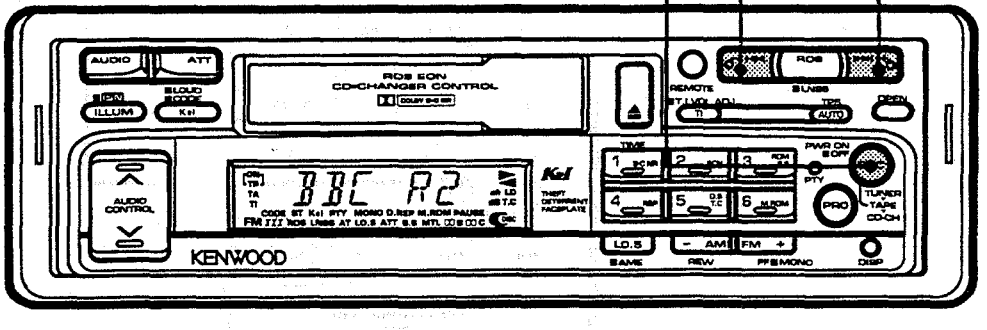




TO SKIP AHEAD/BACK

Operation	Press
Ahead	▶▶|
Back	|◀◀

Hold down the button until you reach the track you want.



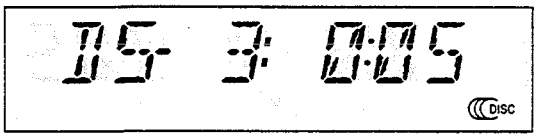
NOTE

- When the player reaches the end of the last track on the disc you are playing, it will shift automatically to the first track on the next disc in order.
- When you change the discs in the autochanger, the Load indicator will appear on the display.
- "0" indicates the No. 10 disc.

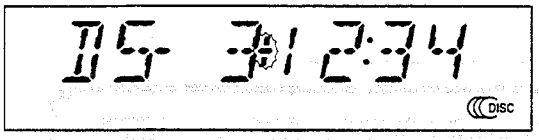
TIME DISPLAY

► Each time you press the Time button, the display switches between current track and total CD playback time.

(The "+" indicates total CD playback time.)



Current track playback time display

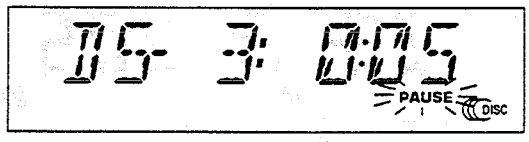


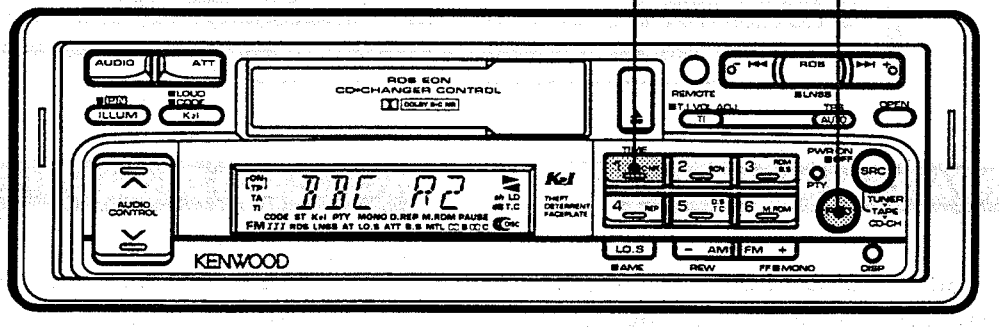
Total CD playback time display

TO PAUSE

► Press the Pause button.
(The Pause indicator will flash on the display.)

► To restart play, press the Pause button again.





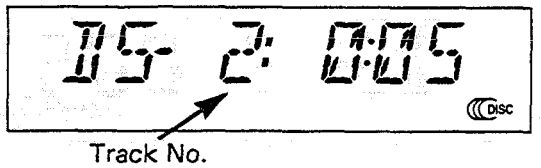
NOTE

- The Time display is not available if you use the KDC-C100/C200/C300/C400/C301/C401 as the CD auto changer.

TRACK/DISC SEARCH

BACKWARD TRACK SEARCH

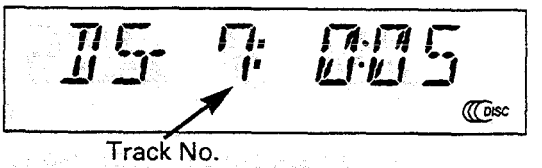
► Briefly press the ⏮ button until you see the number of the track you want to play.
The unit will begin playing the track shown on the display.



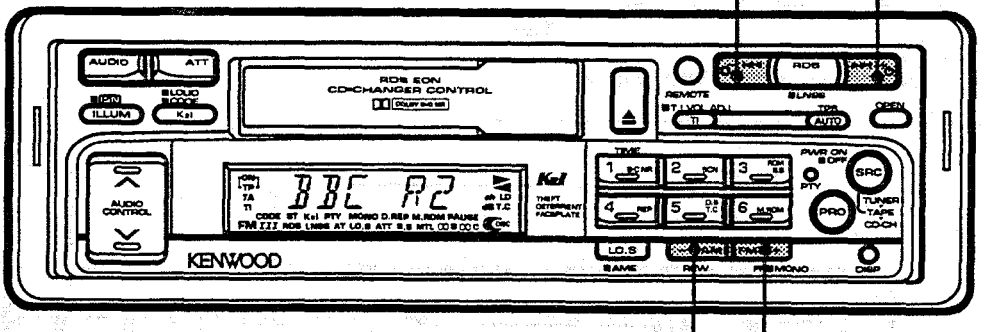
Track No.

FORWARD TRACK SEARCH

► Briefly press the ⏭ button until you see the number of the track you want to play.
The unit will begin playing the track shown on the display.

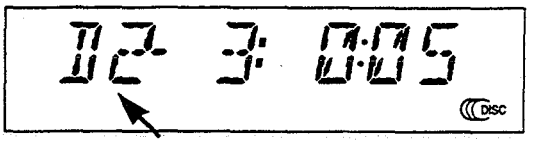


Track No.



BACKWARD DISC SEARCH

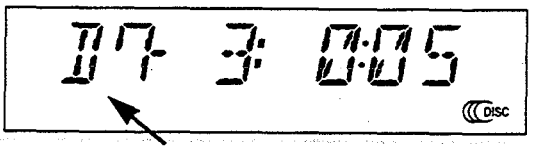
► Press the Disc– button until you see the number of the disc you want to play.
The unit will begin playing the disc shown on the display.



Disc No.

FORWARD DISC SEARCH

► Press the Disc+ button until you see the number of the disc you want to play.
The unit will begin playing the disc shown on the display.



Disc No.

NOTE

- If you try Backward track search while playing track No. 1, the player will resume play at the start of track No. 1.
- If you try Forward track search while playing the last track on a disc, nothing will happen.

TRACK/DISC REPEAT

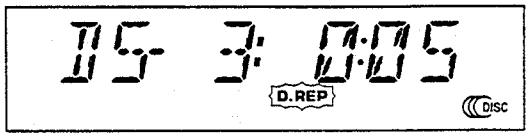
TO START TRACK REPEAT

► Press the Repeat button.
(The Repeat indicator will appear on the display, and the player will repeat the track you are playing until you cancel repeat.)

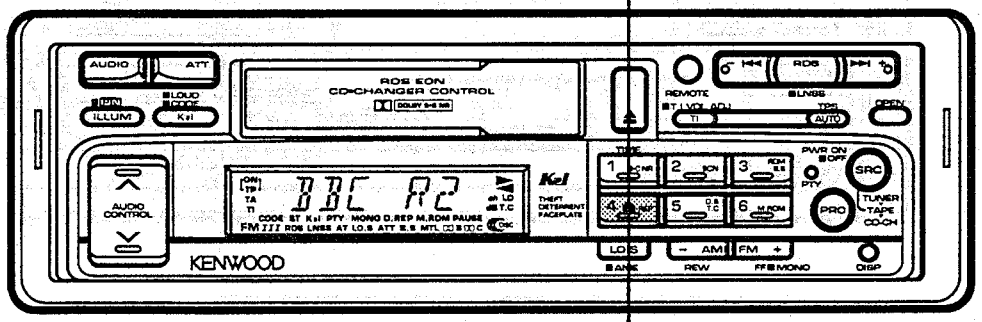
Track repeat ON

TO START DISC REPEAT

► Press the Repeat button twice.
(To use Track repeat function, press the Repeat button once.)
(The Disc repeat indicator will appear on the display, and the player will repeat the disc you are playing until you cancel repeat.)



Disc repeat ON



TO STOP

► Press the Repeat button again.
(To use Track repeat function, press the Repeat button twice. To use Disc repeat function, press the Repeat button once.)
(The Disc repeat indicator will disappear.)

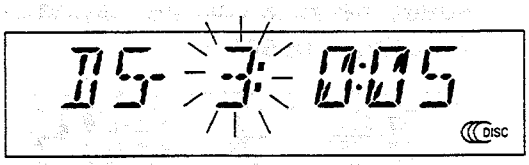
TRACK SCAN

1

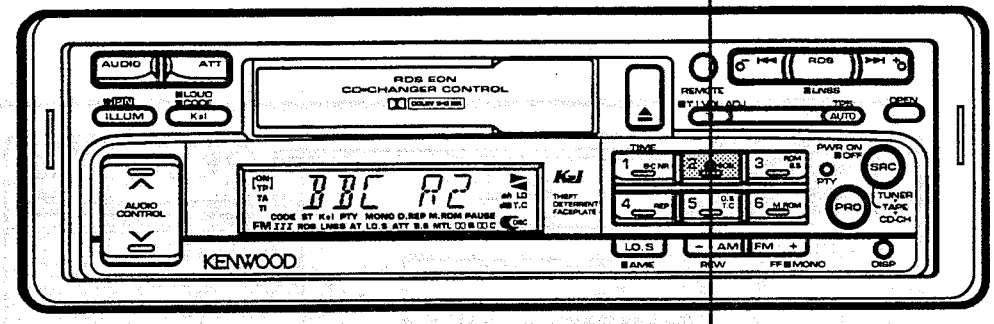
► Press the Track scan button.

2

The player will play the first 10 seconds of each track. The track number will flash on the display.



ON



3

► To select a track, press the Track scan button again.
(Scanning will stop and playback begin.)

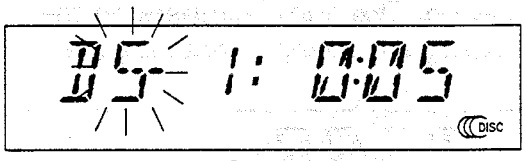
DISC SCAN

1

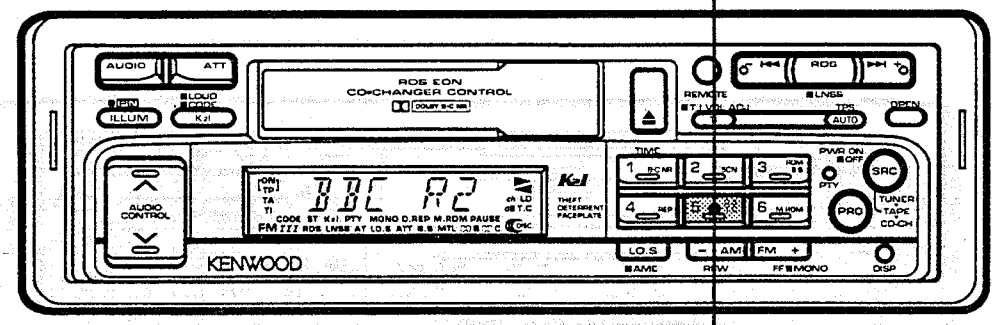
► Press the Disc scan button.

2

The player will play the first 10 seconds from each disc in the changer. The disc number will flash on the display.



ON



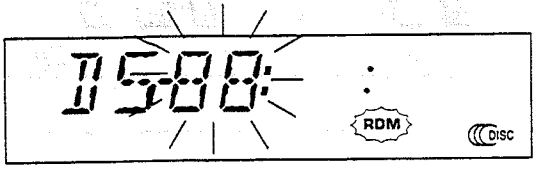
3

► To select a disc, press the Disc scan button again.
(Scanning will stop and playback begin.)

RANDOM PLAY

1

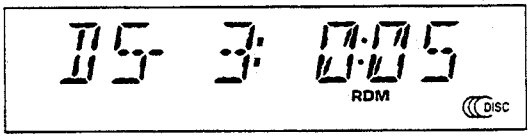
► Press the Random button.
(The Random indicator will light up, and the player will randomly select another track from the disc you are playing. The track numbers on the display will change continuously.)

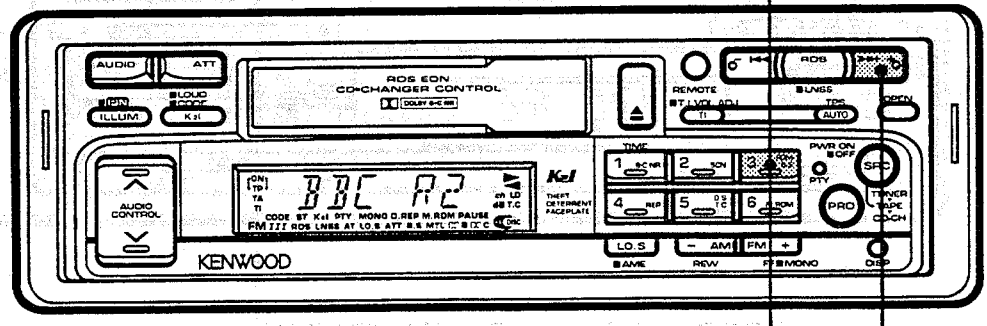


During random search

2

When the track is selected, playback will begin automatically.





3 TO SELECT ANOTHER TRACK

► Press the ▶▶| button.
(The player will randomly choose another track.)

TO STOP

► Press the Random button again.
(The disc play returns to normal.)

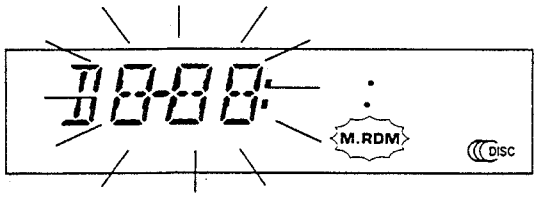
NOTE

- When all the tracks on a disc have been played, the player will randomly select the next disc.

MAGAZINE RANDOM PLAY

1

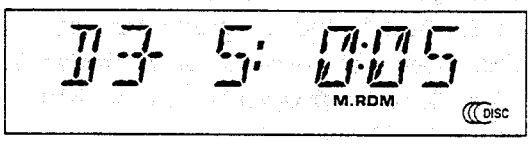
► Press the Magazine random button.
(The Magazine random indicator will light up, and the player will randomly select a disc and track from the magazine in the changer. The track numbers and disc numbers on the display will change continuously.)

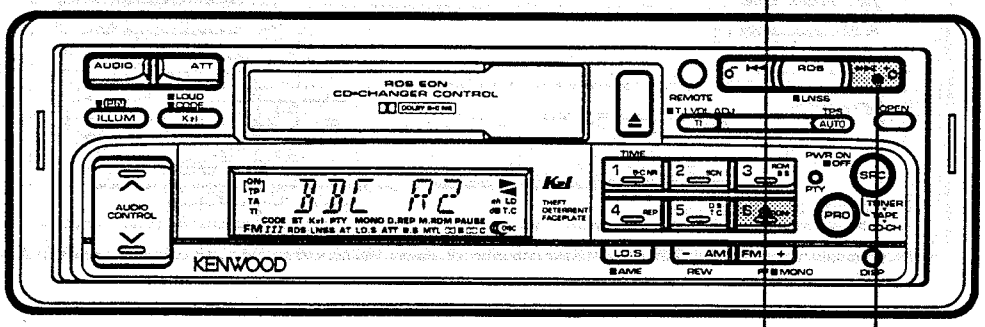


During magazine random search

2

When the search is complete, playback will begin automatically.





3 TO SELECT ANOTHER TRACK

► Press the ▶▶| button.
(The player will randomly choose another disc and track.)

TO STOP

► Press the Magazine random button again.
(The disc play returns to normal.)

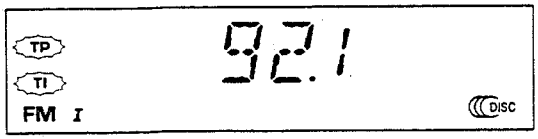
NOTE

- This function is not available if you use the KDC-C100/C200/C300/C400/C301/C401 as the CD auto changer.

TRAFFIC INFORMATION WHILE PLAYING CDs

1

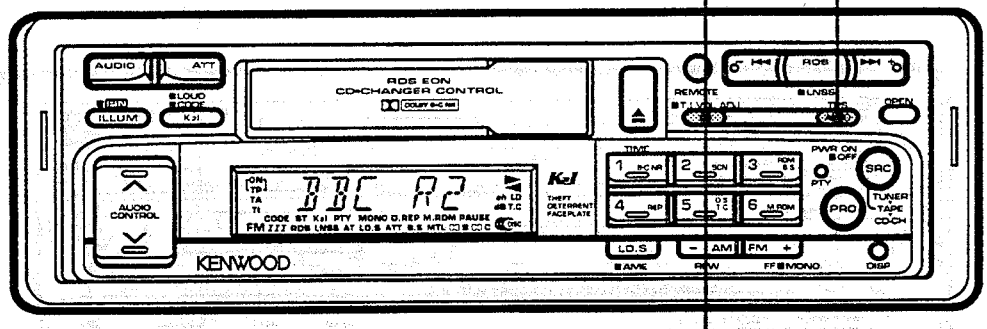
► When you press the TI button.
(The TI indicator will appear on the display. If the station you are tuned to is not a traffic program station, the tuner will seek for one. When it finds a traffic program station, the TP indicator will appear on the display.)



The display shows the frequency selected.

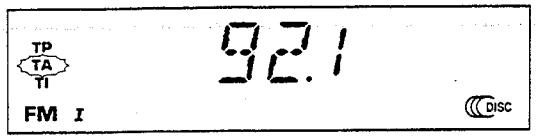
2

► If the station the tuner finds is not the one you want, press the TP seek button.
(The tuner will seek for another TP station.)



3

When a traffic information broadcast starts, this unit will switch automatically into Tuner mode. The disc player will stop and the TA indicator will appear on the display. Disc play will resume when the broadcast is over.



4

► To overide and return to the disc you are playing, press the TI button.
(This will cancel the Traffic information function.)

DIRECT TRACK/DISC SEARCH

■ DIRECT TRACK SEARCH

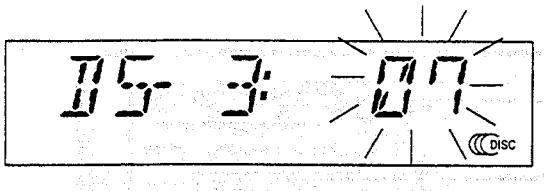
1

► Use the number keys to enter the number of the track you want.

(When the player reaches the track you've selected, its number will blink for 10 seconds.)

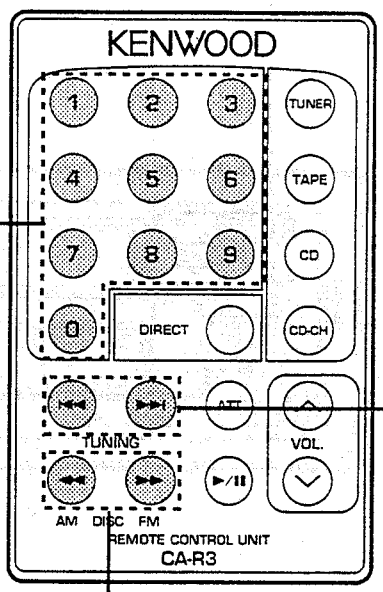
For example: To listen to track number 7, press ⑦

To listen to track number 12, press ①, ②



2

► To skip forward or backward, press the ▶▶| or |◀◀ buttons.



■ DIRECT DISC SEARCH

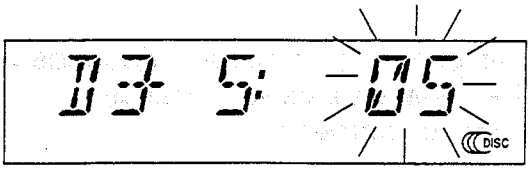
1

► Use the number keys to enter the number of the disc you want.

(When the player reaches the disc you've selected, its number will blink for 10 seconds.)

For example: To listen to disc number 5, press ⑤

To listen to disc number 10, press ①, ⓪



2

► To skip forward or backward, press the ▶▶ or ◀◀ buttons.

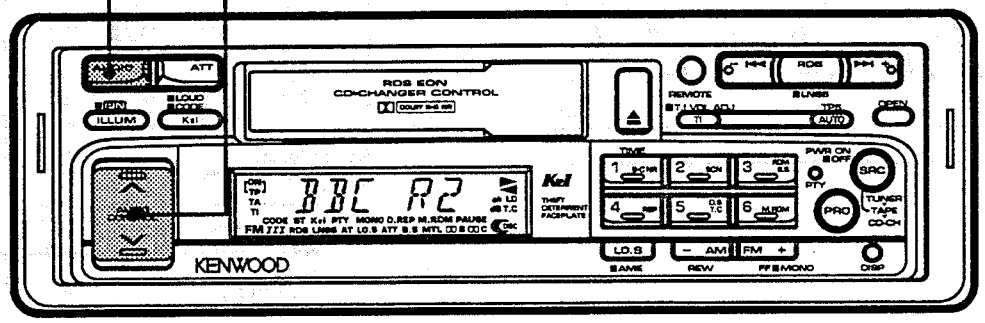
AUDIO CONTROLS

1

► To select Bass, Mid-Bass, Treble, Balance, Fader, or return to volume, press the Audio button until the function indicator appears on the display.
(Mid-Bass only on model KRC-1054R.)

2

► Use the control button to adjust the level of the function you've chosen (For details, see the table on page 47).

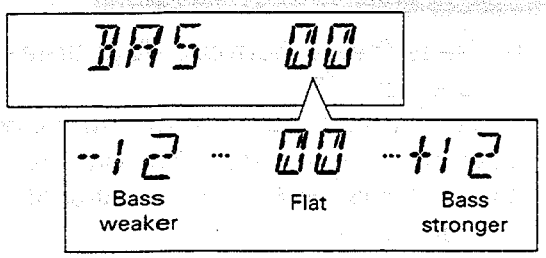
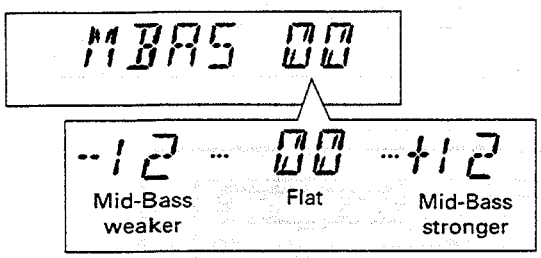
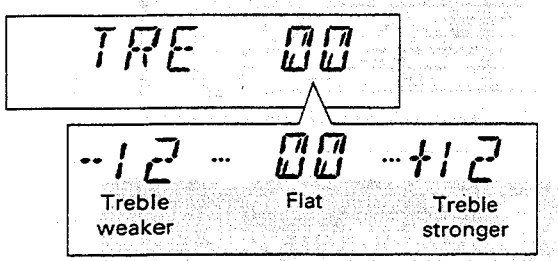
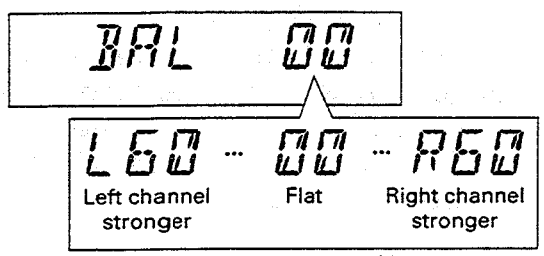
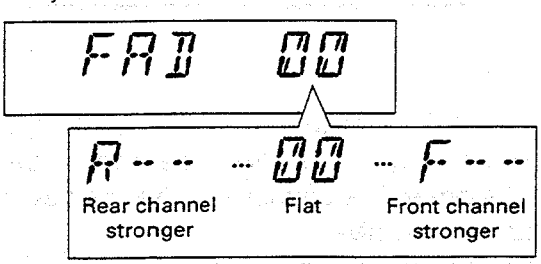


PLEASE OBSERVE

After five seconds, the controller will return automatically to the Volume setting.

NOTE

- This unit allows the Tone (Bass, Mid-Bass and Treble) control to be set independently for Tuner, Tape and CD Auto Changer modes. The Tone settings will change automatically whenever you change from one mode to another.

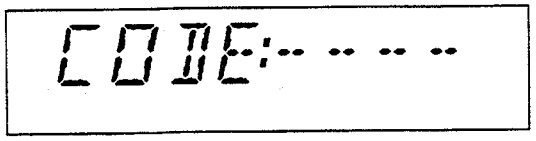
Display	Audio Control Operation	
	Press the ∨ button	**Press the ∧ button**
To adjust bass 	Bass weaker	Bass stronger
To adjust mid-bass 	Mid-Bass weaker	Mid-Bass stronger
To adjust treble 	Treble weaker	Treble stronger
To adjust right/left channel balance 	Left channel stronger	Right channel stronger
To adjust front/rear balance 	Rear channel stronger	Front channel stronger

SECURITY CODE

■ To use this function you must know your Security code. Please confirm your Security code before trying to use it. The following example assumes that your Security code is 3510.

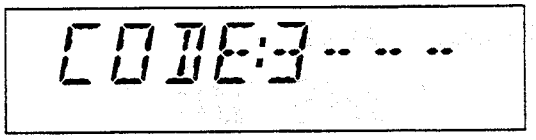
1 To enter your code

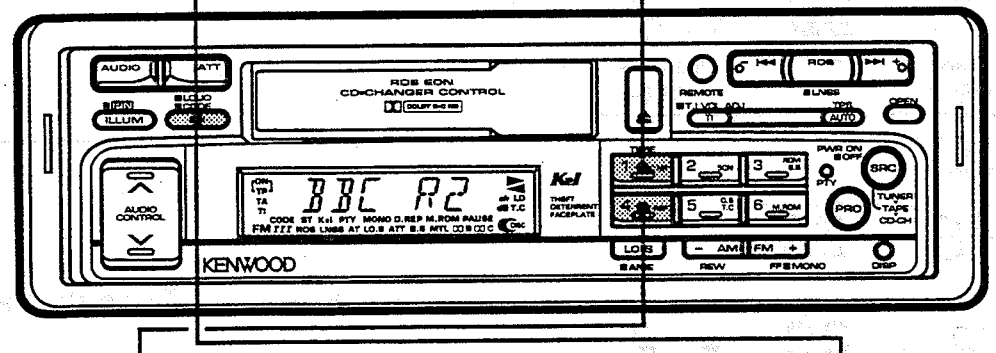
► First, press the Code button for more than three seconds.
(The "CODE – – – –" message will appear on the display.)



2 To enter the first digit

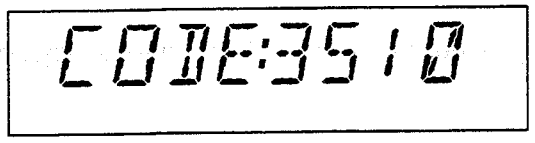
► Press Preset button ① four times to enter "3".
(Note that you must press one more time than the number you wish to enter: in this case "0,1,2,3" equals four times.)





5 To enter the fourth digit

► Press Preset button ④ one time to enter "0".



6 To confirm your code

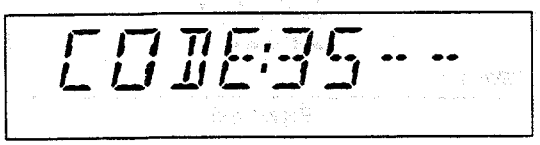
► Press the Code button for more than three seconds.
(If the code you have entered is correct, the security code function is turned ON. If it is incorrect, the "CODE – – – –" message will reappear on the display.)

NOTE

- If you realize that you have pressed the Preset button too many times in inputting your Security code (if, for instance, you have pressed 4 times where the code should be 2), just continue to press the Preset button. After the code 9 is displayed, the display will return to 0. Keep pressing until you reach the correct number.
- To quit without inputting a Security code, switch the power OFF.

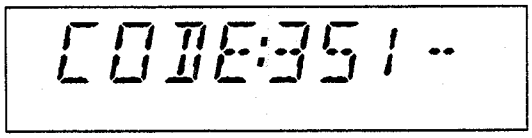
3 To enter the second digit

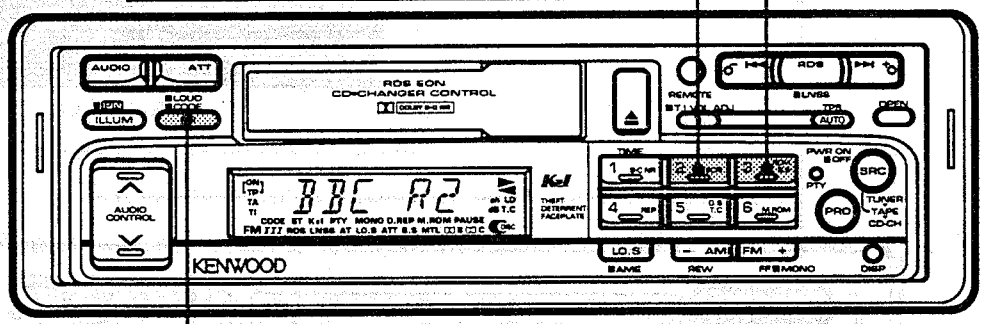
► Press Preset button ② six times to enter "5".



4 To enter the third digit

► Press Preset button ③ two times to enter "1".

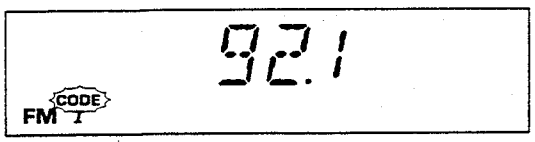




TURNING SECURITY ON AND OFF

► Press the Code button for more than three seconds.

(If Security is on, it will turn off, and the Code indicator will disappear from the display. If Security is off, it will turn on, and the Code indicator will appear on the display.)



ON

NOTE:

When the security code function is ON, the power cannot be turned ON by inserting a cassette tape. Press the Power button to turn power ON.

IF YOU MAKE A MISTAKE

If you have removed the unit and then put it back in place, when you turn the power switch to ON, "– – – –" and the entry count will appear on the display. Follow steps 2-6 to enter your Security code. If the code you enter is incorrect, "WAIT" will appear on the display. As indicated in the table below, the first time you enter an incorrect code, you may immediately try again. Otherwise you will have to wait before you try again.

Number of Incorrect Tries	How Long You Must Wait
1	No Wait
2	5 minutes
3	1 hour
4	24 hours

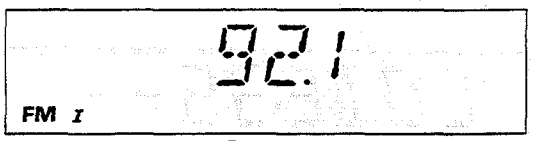
SELECTABLE ILLUMINATION AND DISPLAY TYPE

■ SELECTABLE ILLUMINATION

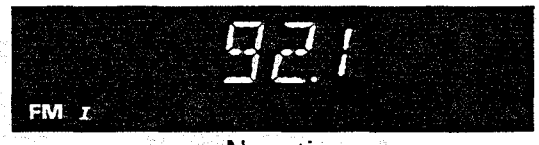
► Briefly press the Illumination button.
(The illumination will change from green to orange or vice-versa.)

■ SELECTABLE DISPLAY TYPE

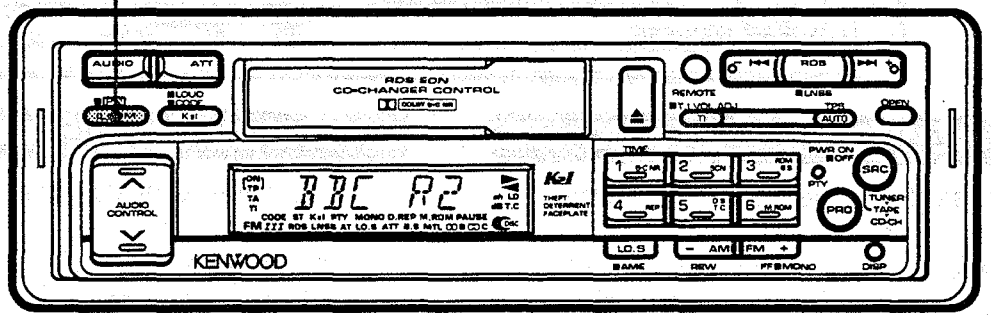
► Press the Positive/Negative button for more than one second.
(The display will change from negative
to positive or vice-versa.)



Positive



Negative



PHONE INTERFACE

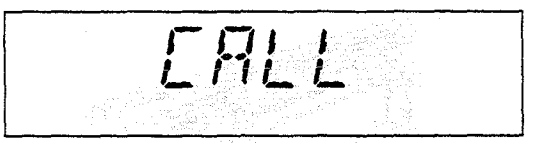
< Function of the KRC-1054R >

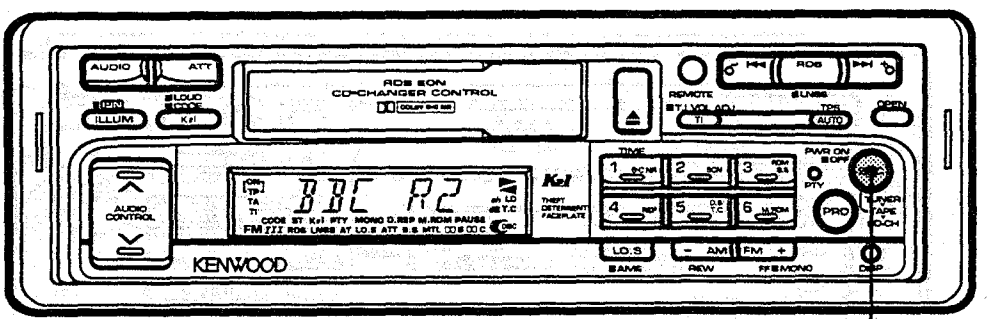
1

Connect the phone interface lead (See. p. 55).

2

When a telephone call is received, the display shows CALL, and the current function pauses.





3

► To resume use of the previous function, restart by pressing the Source button.
(The Call indicator will disappear.)

NOTE

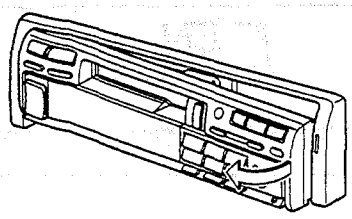
- This function does not start operating for 10 seconds after turning the ignition ON.

THEFT DETERRENT FACEPLATE

■ To remove the faceplate

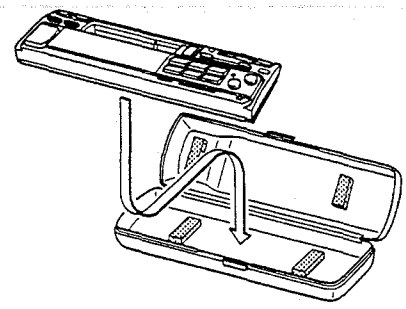
1

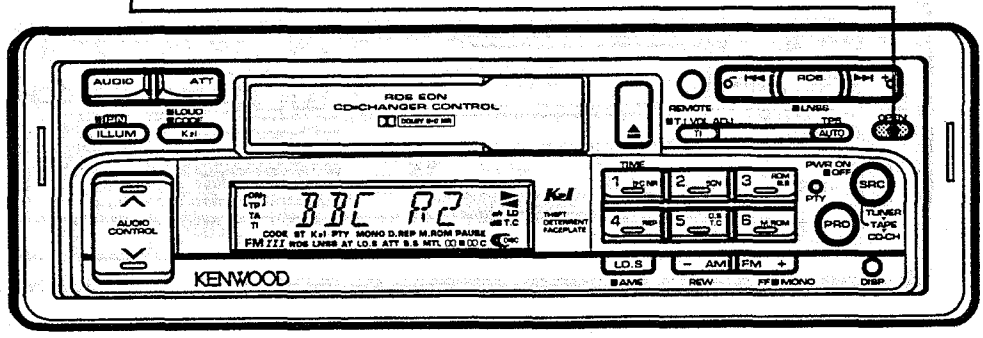
Press the Open button to unlock the faceplate, then remove carefully.



2

Place the faceplate in the storage case with the button side facing up.

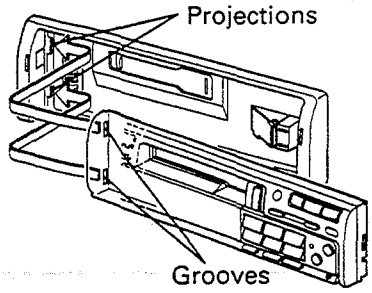




■ To install the faceplate

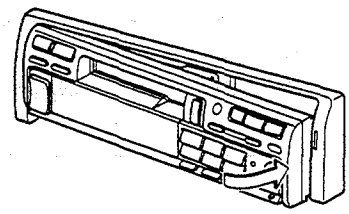
1

Align the projections on the faceplate mount with the grooves on the left side of the faceplate.



2

Press on the right side of the faceplate until it locks in place.



NOTE

Disabled system indicator

- To deter theft, this unit is equipped with a Disabled system indicator. It can be turned ON and OFF by holding down preset station buttons "1" and "3" while turning the power on.

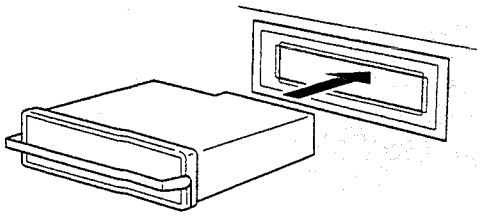
TO INSTALL/REMOVE THE UNIT

< Function of the KRC-1054R >

■ To install the unit

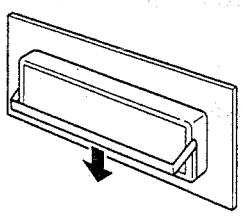
1

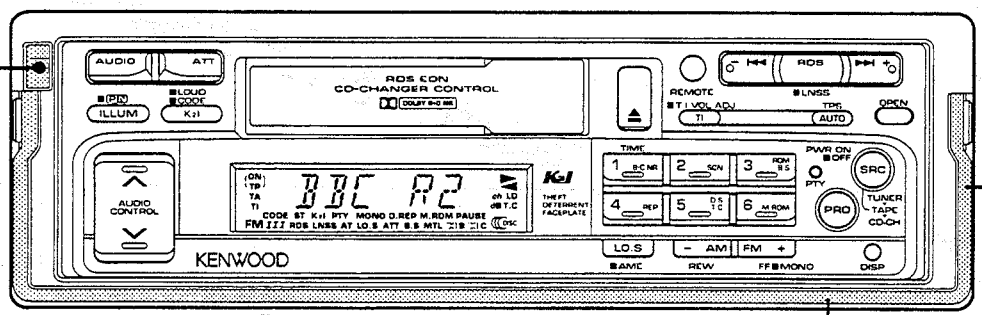
Insert it into the Mounting Case.



2

Fold the handle down.





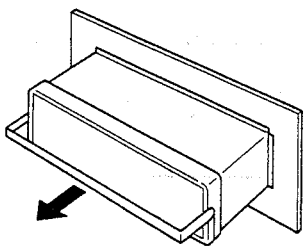
■ To remove the unit

1

Press the T.P.C button and lift the handle.

2

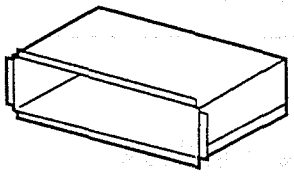
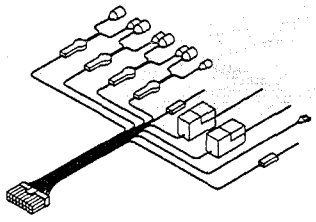
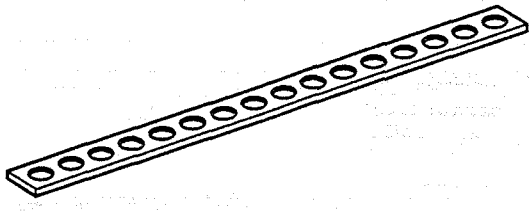
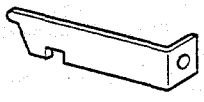
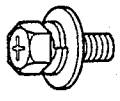
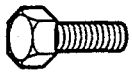
Use the handle to pull the unit out.



⚠CAUTION

- To prevent damage to the tape heads, eject cassettes before removing the unit.
- This unit is a piece of precision equipment. Dropping or shaking may cause damage.
- The unit is in the removable status for 10 seconds after one of the following operations: After the ignition key is switched OFF; after the handle is lifted while the ignition key is ON, and; after the faceplate is attached while the ignition key is OFF.
  It is not possible to put the unit in the removable status for 10 seconds after one of the following operations:
  After the unit is installed, and; after the unit removable status is over.

ACCESSORIES

Part Name	External View	Number of Items
Mounting case		1
Wiring harness (KRC-954R)		1
Metal mounting strap		1
Removal tool (KRC-954R)		1
Assembly screw with washer (M4×8) (KRC-954R)		1
Hex bolt(M5×20) (KRC-1054R)		1
Hex nut(M5) (KRC-1054R)		2

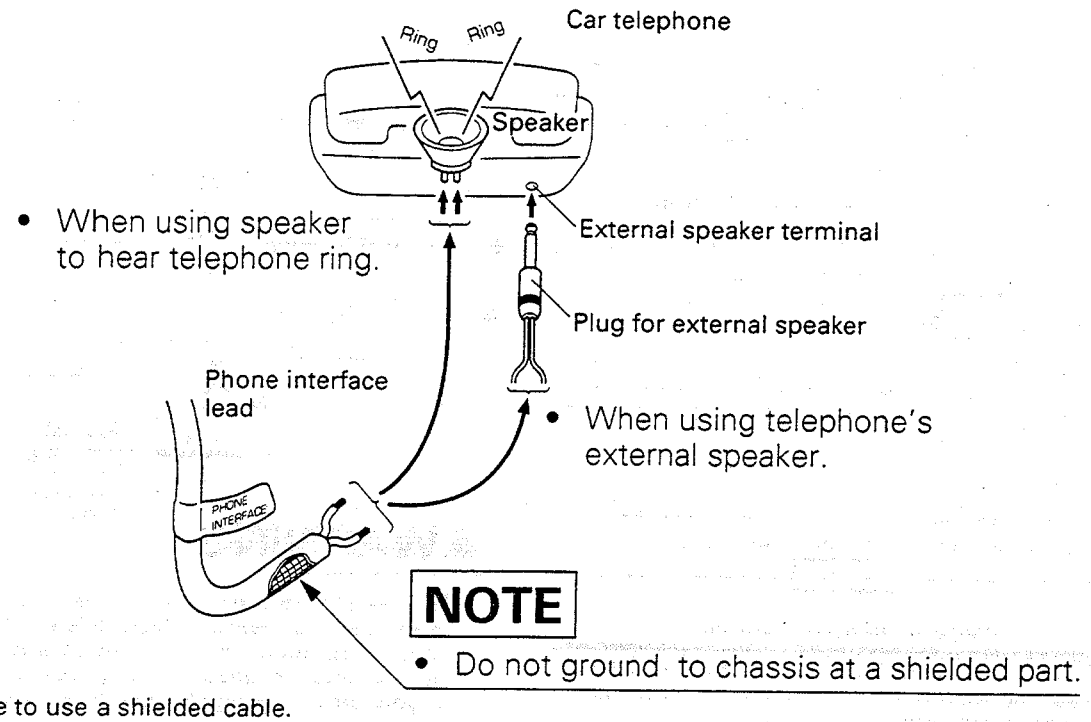
INSTALLATION PROCEDURE

1. Before starting installation, disconnect the negative ⊖ terminal of the battery. This will prevent short circuits.
2. Connect the Input and Output leads (☞p.56/57).
3. Connect the Ground lead (Black) to the metal body of the car.(☞p.56/57).
4. Connect the Memory backup lead (Yellow) (☞p.56/57).
5. Connect the Power supply lead (Red) (☞p.56/57).
6. KRC-1054R: Install the Mounting Case (☞p.58).
   KRC-954R: Install the unit in the car (☞p.58).
7. Connect the negative ⊖ terminal of the battery.
8. Insert the unit in the Mounting Case (KRC-1054R only) (☞p.53).
9. Press the Reset button.

⚠CAUTION

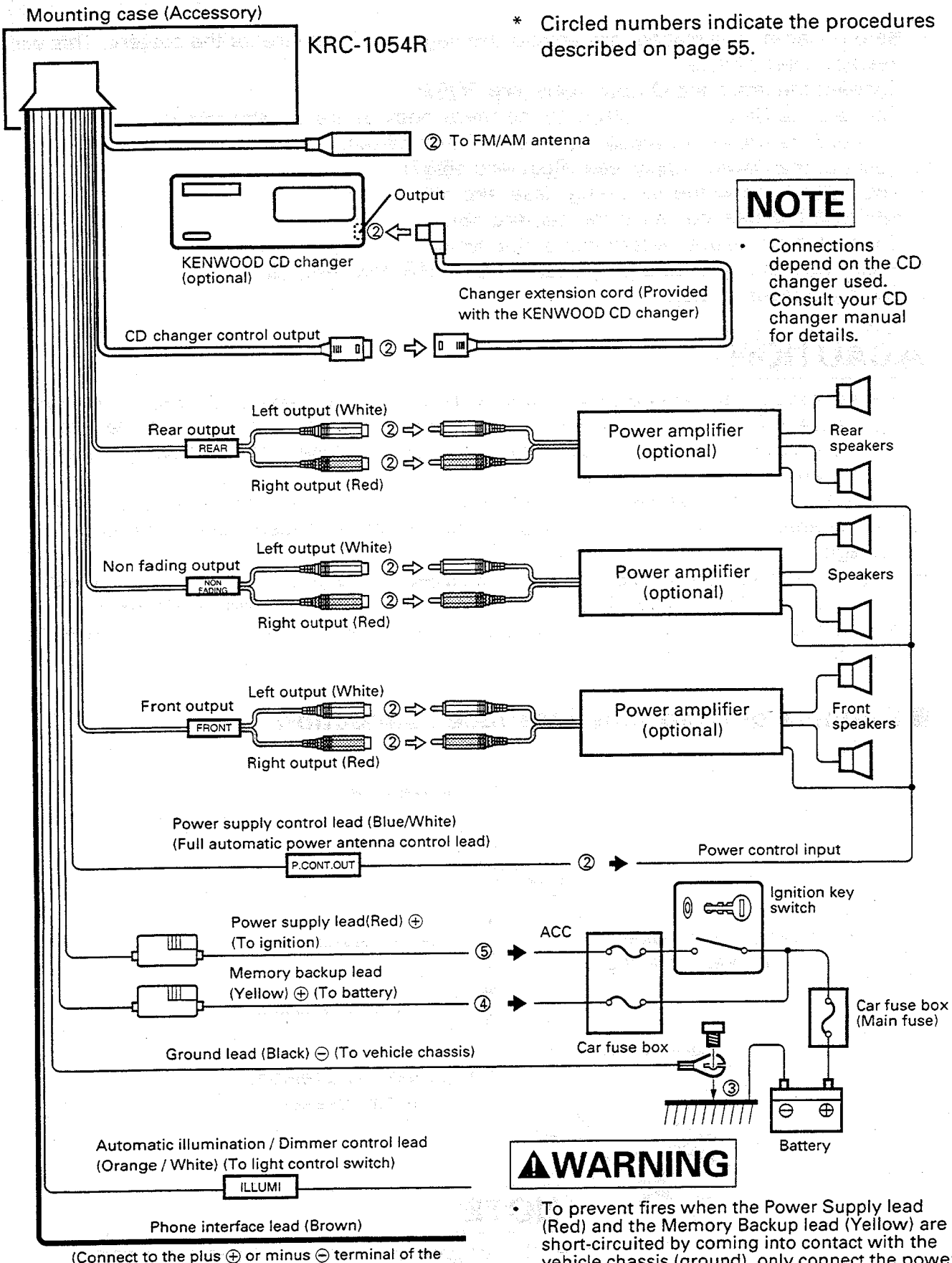
- A short circuit may cause a blown fuse. A short circuit is a serious problem that could also cause a fire. Check the wiring carefully and, if any wires are short-circuited, rewire immediately. If no short-circuits are found, replace the fuse with one having the same rating (see indication in fuse box).
- Check that no unconnected wires or connectors are in contact with the body of the car. Extraneous noise or current entering the system can cause malfunction or damage.
- To provide more power, this product is equipped with a BTL (Balanced Transformer Less) system. But in this type of system, sharing different speaker terminals or connecting or grounding speaker terminals to the car can cause distortion or damage. (BTL only on model KRC-954R.)

■ Example of telephone interface connection

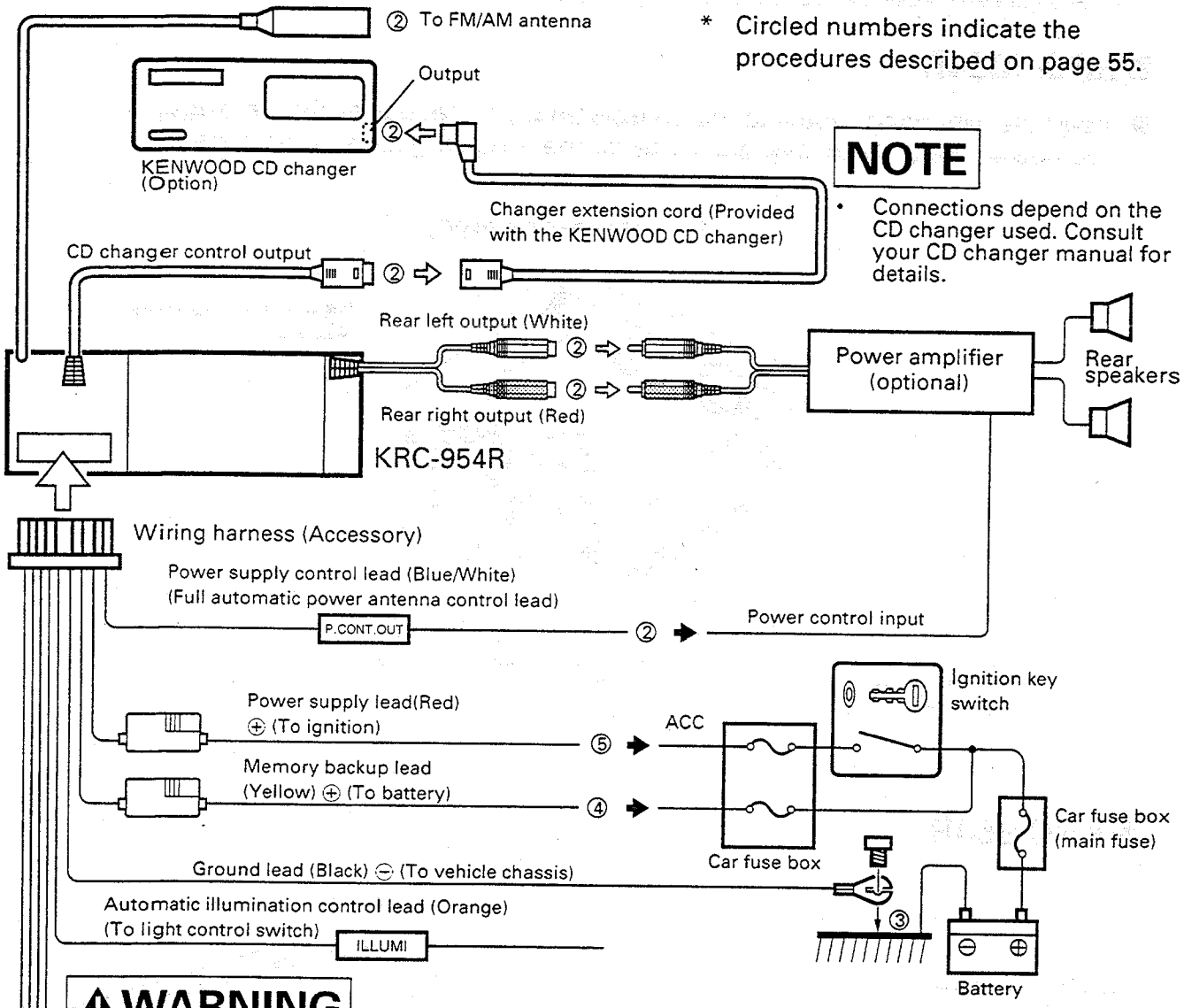


*Be sure to use a shielded cable.

CONNECTIONS(KRC-1054R)


Mounting case (Accessory)
KRC-1054R
* Circled numbers indicate the procedures described on page 55.
② To FM/AM antenna
Output
KENWOOD CD changer (optional)
Changer extension cord (Provided with the KENWOOD CD changer)
CD changer control output
NOTE
• Connections depend on the CD changer used. Consult your CD changer manual for details.
Left output (White)
Rear output
REAR
Right output (Red)
Power amplifier (optional)
Rear speakers
Non fading output
NON FADING
Speakers
Front output
FRONT
Front speakers
Power supply control lead (Blue/White)
(Full automatic power antenna control lead)
P.CONT.OUT
Power control input
Power supply lead(Red) ⊕
(To ignition)
Memory backup lead
(Yellow) ⊕ (To battery)
ACC
Ignition key switch
Car fuse box
(Main fuse)
Ground lead (Black) ⊖ (To vehicle chassis)
Battery
Automatic illumination / Dimmer control lead
(Orange / White) (To light control switch)
ILLUMI
Phone interface lead (Brown)
(Connect to the plus ⊕ or minus ⊖ terminal of the telephone speaker or buzzer, or to the head phone jack or speaker terminals.)
⚠WARNING
• To prevent fires when the Power Supply lead (Red) and the Memory Backup lead (Yellow) are short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections first.

CONNECTIONS(KRC-954R)



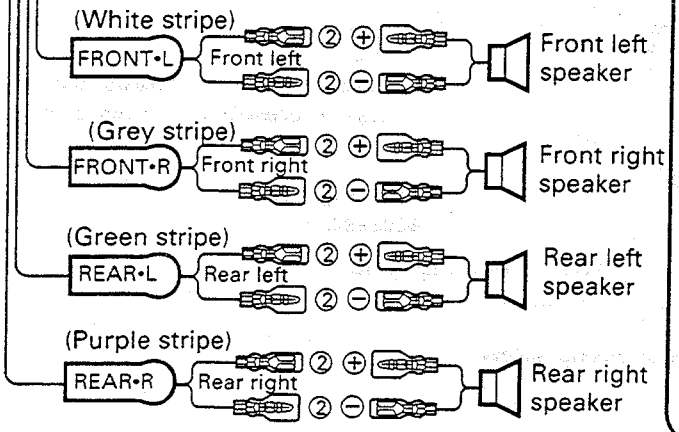
* Circled numbers indicate the procedures described on page 55.

NOTE

- Connections depend on the CD changer used. Consult your CD changer manual for details.

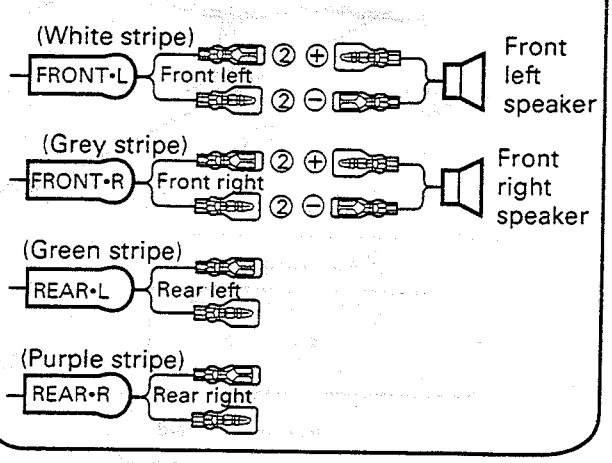
⚠WARNING

- To prevent fires when the Power Supply lead (Red) and the Memory Backup lead (Yellow) are short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections first.



⚠CAUTION

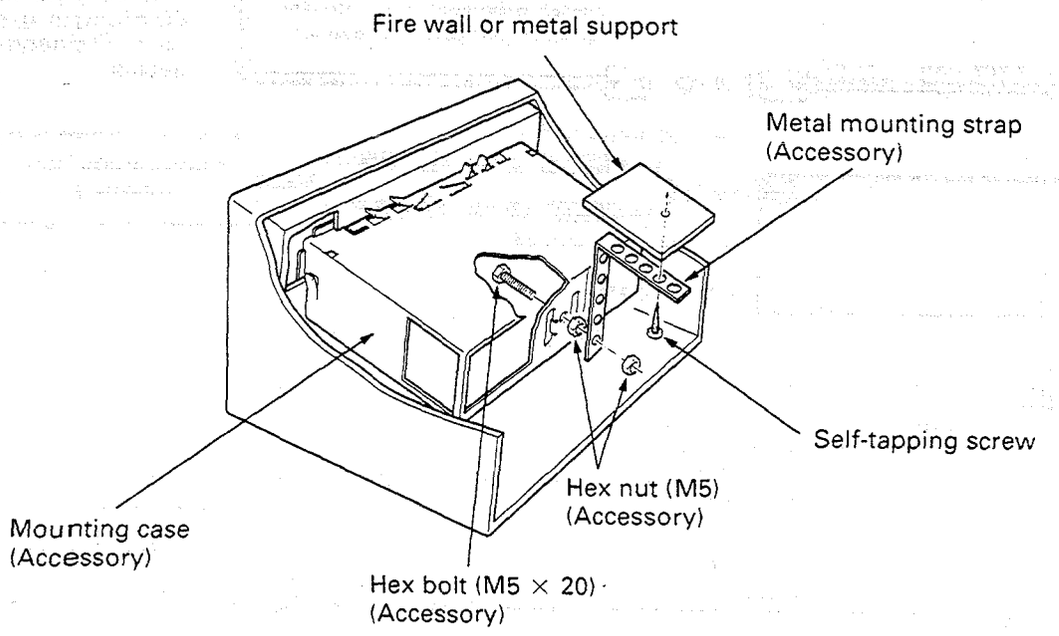
- When two speakers are connected to the system, be sure to connect them as indicated below. Any other connection will cause sound distortion and damage to the speakers.



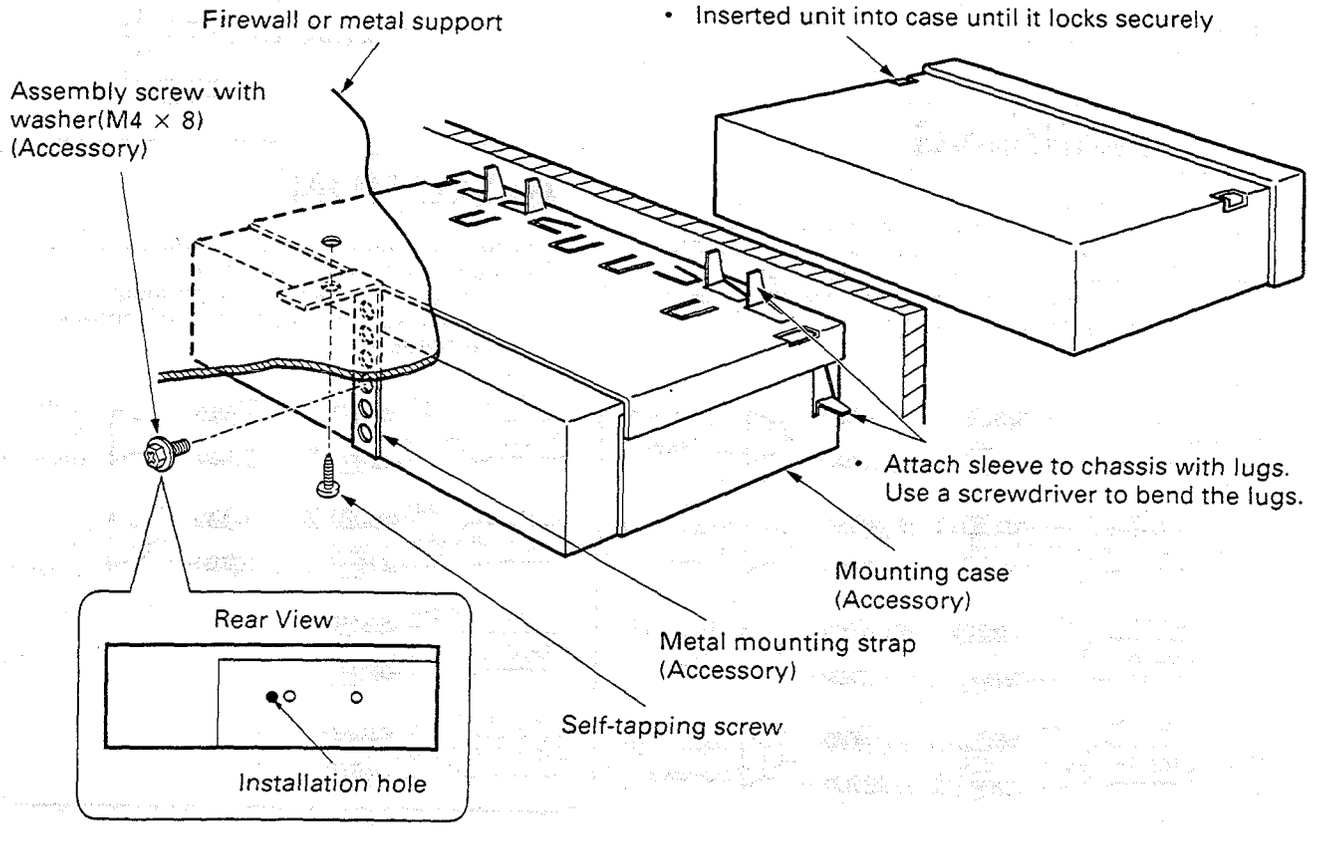
INSTALLATION

■ KRC-1054R

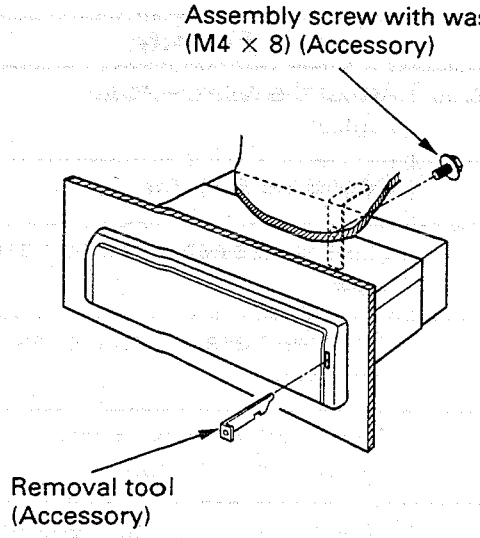
- Insert the Mounting case into the console and use the lugs to fix it in place. If necessary, use a file to create a space for the Mounting case in the console.



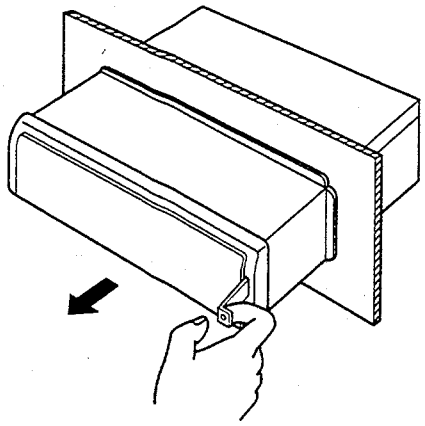
■ KRC-954R



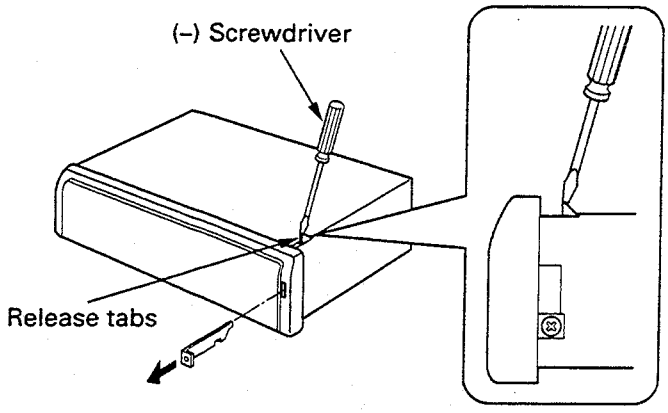
■ To remove the unit (KRC-954R)



1. Remove the assembly screw with washer holding on the back panel. Then insert removal tool into slot.



2. Use the removal tool to pull out the unit.



3. While using a screwdriver to press down the release tabs on the side of the chassis, pull out the removal tool.

TROUBLESHOOTING GUIDE

Often, what appears to be a malfunction is due to user error. Before calling for service, please consult the following table.

Symptom	Cause	Remedy
No sound from one channel.	The balance/fader control is turned all the way to one side.	Adjust the balance/fader control.
Poor reception.	The antenna is not extended.	Extend the antenna.
Sound quality is poor.	The tape head is dirty.	Use a head cleaning kit to clean head.
Controls do not function properly.	A power surge has caused the problem.	Press the Reset button on the front panel.
The phone interface isn't working.	The phone interface lead is not connected properly.	Reconnect it, following the instructions provided.
Phone interface signals "CALL" when no call has been received.	The phone interface lead is short-circuited; it may be worn or the cap at the tip may be missing.	Rewire, ensuring that there are no short circuits.

■ When the KENWOOD CD Changer is part of your system

Symptom	Cause	Remedy
CD play does not start.	Power button is not set at ON.	Turn power button ON, then press the Source button to set to the CD changer mode.
The specified disc is not played; the next disc is played instead.	1. The specified disc is dirty 2. The disc is upside down. 3. Two discs are in the same position. 4. The disc you want is in a different position from that indicated by the number you specify. 5. The disc is scratched or seriously damaged.	1. Clean the disc. 2. Eject magazine and reinsert disc right side up. 3. Eject magazine and reposition the discs. 4. Eject magazine to check disc and position numbers, then specify again. 5. Play other discs.
No sound is heard even though the changer indicator appears on the display.	1. Volume is set to minimum level. 2. The microprocessor is not operating correctly. 3. The system is not properly connected.	1. Raise the volume level. 2. Press the Reset button. 3. Check connections and reconnect if necessary.
The specified track is not played.	The player is set to RANDOM PLAY/ MAGAZINE RAMDOM PLAY.	Turn off RANDOM PLAY/ MAGAZINE RAMDOM PLAY.

In some cases, you may see one of the following error messages on your unit's display:

E-01: No disc magazine in changer, or magazine is not inserted properly.
E-02: No discs in disc magazine.
E-04: Disc is too dirty. There is water on the disc. The disc is upside down.
E-99: Incorrect operation.
⇨ Press the Reset button. If the "E-99" message does not disappear, contact your nearest KENWOOD service agent.
E-0D: When the temperature exceeds 60°C, a protection circuit will stop all operations. This error message will then appear.
⇨ As soon as the space where the changer is located cools off, this message will disappear automatically. If this message appears frequently, you should think about putting the changer in another location.

SPECIFICATIONS

Specifications subject to change without notice.

FM Tuner Section

Frequency Range	87.5 MHz ~ 108.0MHz
Usable Sensitivity	1.1 µV/75 ohms
Stereo Sensitivity (SIN = 46 dB)	1.6 µV/75 ohms
Frequency Response (±4.5 dB)	30 Hz ~ 15 kHz
Signal to Noise Ratio (IEC-A)	68 dB
Selectivity	70 dB (±400 kHz)
	40 dB (±200 kHz : K2I OFF)
	75 dB (±200 kHz : K2I ON)
Stereo Separation (1 kHz)	35 dB
19 kHz Carrier Leakage	65 dB

MW Tuner Section

Frequency Range	531 kHz ~ 1611 kHz
Usable Sensitivity	30 µV

LW Tuner Section

Frequency Range	153 kHz ~ 281kHz
Usable Sensitivity	60 µV

Cassette Deck Section

Tape Speed	4.76cm / s
Wow & Flutter (WRMS)	0.09 % (WRMS)
Fast Winding Time (C-60)	100 sec.
Frequency Response (120 µs)	30 Hz ~ 18 kHz (+4 dB, – 6 dB)
(70 µs)	30 Hz ~ 20 kHz (+4 dB, – 6 dB)
Stereo Separation (1 kHz)	40 dB
Signal to Noise Ratio (Dolby B/C NR OFF)	55 dB
(Dolby B NR ON)	65 dB
(Dolby C NR ON)	72 dB

Audio Section

[KRC-1054R]

Tone Action	Bass: 70 Hz ±10 dB
	Mid-Bass: 200 kHz ±10 dB
	Treble: 10 kHz ±10 dB
Preout Level / Impedance	800 mV (max.) / 180 ohms

[KRC-954R]

Maximum Output Power	25 W×4
Output Power (10% THD, 1kHz, 4 Ω)	20 W×4
(1% THD, 1kHz, 4 Ω)	15 W×4
Tone Action	Bass: 100 Hz ±10 dB
	Treble: 10 kHz ±10 dB
Preout Level / Impedance	800 mV (max.) / 180 ohms

General

[KRC-1054R]

Operating Voltage	14.4 V (11 – 16 V allowable)
Current Consumption	0.8 A at Rated Power
Dimensions (W×H×D)	188×58×193 mm
Installation Size (W×H×D)	182×52×171 mm
Weight	1.9 kg

[KRC-954R]

Operating Voltage	14.4 V (11 – 16 V allowable)
Current Consumption	7.5 A at Rated Power
Dimensions (W×H×D)	188×58×175 mm
Installation Size (W×H×D)	182×52×154 mm
Weight	1.5 kg